

Data Analytics II Project

August 2, 2019

1 Data Analytics II: TELCO Project

```
In [1]: import pandas as pd
        from pandas import ExcelWriter
        from pandas import ExcelFile
        import seaborn as sns
        from scipy import stats
        import numpy as np
        from scipy.stats import zscore
        import matplotlib.pyplot as plt
        import plotly.plotly as py
        import plotly.tools as tls
        import pylab as plt
        from sklearn.model_selection import train_test_split
        from sklearn.linear_model import LinearRegression
        from sklearn.metrics import classification_report
        from sklearn import metrics
        %matplotlib inline

In [2]: #First read in the csv File to a data frame for analysis
        df = pd.read_csv('WA_Fn-UseC_-Telco-Customer-Churn.csv')
```

1.1 A.) Analyze the Data

```
In [3]: df
```

```
Out[3]:
```

	customerID	gender	SeniorCitizen	Partner	Dependents	tenure	\
0	7590-VHVEG	Female	0	Yes	No	1	
1	5575-GNVDE	Male	0	No	No	34	
2	3668-QPYBK	Male	0	No	No	2	
3	7795-CFOCW	Male	0	No	No	45	
4	9237-HQITU	Female	0	No	No	2	
5	9305-CDSKC	Female	0	No	No	8	
6	1452-KIOVK	Male	0	No	Yes	22	
7	6713-OKOMC	Female	0	No	No	10	
8	7892-POOKP	Female	0	Yes	No	28	
9	6388-TABGU	Male	0	No	Yes	62	

10	9763-GRSKD	Male	0	Yes	Yes	13
11	7469-LKBCI	Male	0	No	No	16
12	8091-TTVAX	Male	0	Yes	No	58
13	0280-XJGEX	Male	0	No	No	49
14	5129-JLPIS	Male	0	No	No	25
15	3655-SNQYZ	Female	0	Yes	Yes	69
16	8191-XWSZG	Female	0	No	No	52
17	9959-WOFKT	Male	0	No	Yes	71
18	4190-MFLUW	Female	0	Yes	Yes	10
19	4183-MYFRB	Female	0	No	No	21
20	8779-QRDMV	Male	1	No	No	1
21	1680-VDCWW	Male	0	Yes	No	12
22	1066-JKSGK	Male	0	No	No	1
23	3638-WEABW	Female	0	Yes	No	58
24	6322-HRPFA	Male	0	Yes	Yes	49
25	6865-JZNKO	Female	0	No	No	30
26	6467-CHFZW	Male	0	Yes	Yes	47
27	8665-UTDHZ	Male	0	Yes	Yes	1
28	5248-YGIJN	Male	0	Yes	No	72
29	8773-HHUOZ	Female	0	No	Yes	17
...
7013	1685-BQULA	Female	0	No	No	40
7014	9053-EJUNL	Male	0	No	No	41
7015	0666-UCTJO	Male	1	Yes	No	34
7016	1471-GIQKQ	Female	0	No	No	1
7017	4807-IZYOZ	Female	0	No	No	51
7018	1122-JWTJW	Male	0	Yes	Yes	1
7019	9710-NJERN	Female	0	No	No	39
7020	9837-FWLCH	Male	0	Yes	Yes	12
7021	1699-HPSBG	Male	0	No	No	12
7022	7203-OYKCT	Male	0	No	No	72
7023	1035-IPQPU	Female	1	Yes	No	63
7024	7398-LXGYX	Male	0	Yes	No	44
7025	2823-LKABH	Female	0	No	No	18
7026	8775-CEBBJ	Female	0	No	No	9
7027	0550-DCXLH	Male	0	No	No	13
7028	9281-CEDRU	Female	0	Yes	No	68
7029	2235-DWLJU	Female	1	No	No	6
7030	0871-OPBXW	Female	0	No	No	2
7031	3605-JISKB	Male	1	Yes	No	55
7032	6894-LFHLV	Male	1	No	No	1
7033	9767-FFLEM	Male	0	No	No	38
7034	0639-TSIQW	Female	0	No	No	67
7035	8456-QDAVC	Male	0	No	No	19
7036	7750-EYXWZ	Female	0	No	No	12
7037	2569-WGERO	Female	0	No	No	72
7038	6840-RESVB	Male	0	Yes	Yes	24
7039	2234-XADUH	Female	0	Yes	Yes	72

7040	4801-JZAZL	Female	0	Yes	Yes	11
7041	8361-LTMKD	Male	1	Yes	No	4
7042	3186-AJIEK	Male	0	No	No	66

	PhoneService	MultipleLines	InternetService	OnlineSecurity	...	\
0	No	No phone service	DSL	No	...	
1	Yes	No	DSL	Yes	...	
2	Yes	No	DSL	Yes	...	
3	No	No phone service	DSL	Yes	...	
4	Yes	No	Fiber optic	No	...	
5	Yes	Yes	Fiber optic	No	...	
6	Yes	Yes	Fiber optic	No	...	
7	No	No phone service	DSL	Yes	...	
8	Yes	Yes	Fiber optic	No	...	
9	Yes	No	DSL	Yes	...	
10	Yes	No	DSL	Yes	...	
11	Yes	No	No	No internet service	...	
12	Yes	Yes	Fiber optic	No	...	
13	Yes	Yes	Fiber optic	No	...	
14	Yes	No	Fiber optic	Yes	...	
15	Yes	Yes	Fiber optic	Yes	...	
16	Yes	No	No	No internet service	...	
17	Yes	Yes	Fiber optic	Yes	...	
18	Yes	No	DSL	No	...	
19	Yes	No	Fiber optic	No	...	
20	No	No phone service	DSL	No	...	
21	Yes	No	No	No internet service	...	
22	Yes	No	No	No internet service	...	
23	Yes	Yes	DSL	No	...	
24	Yes	No	DSL	Yes	...	
25	Yes	No	DSL	Yes	...	
26	Yes	Yes	Fiber optic	No	...	
27	No	No phone service	DSL	No	...	
28	Yes	Yes	DSL	Yes	...	
29	Yes	No	DSL	No	...	
...	
7013	Yes	Yes	Fiber optic	No	...	
7014	Yes	Yes	Fiber optic	No	...	
7015	Yes	No	Fiber optic	No	...	
7016	Yes	No	DSL	No	...	
7017	Yes	No	No	No internet service	...	
7018	Yes	No	Fiber optic	No	...	
7019	Yes	No	No	No internet service	...	
7020	Yes	No	No	No internet service	...	
7021	Yes	No	DSL	No	...	
7022	Yes	Yes	Fiber optic	No	...	
7023	Yes	Yes	Fiber optic	No	...	
7024	Yes	Yes	Fiber optic	Yes	...	

7025	Yes	Yes	Fiber optic	No	...
7026	Yes	No	DSL	No	...
7027	Yes	No	DSL	No	...
7028	Yes	No	DSL	No	...
7029	No	No phone service	DSL	No	...
7030	Yes	No	No	No internet service	...
7031	Yes	Yes	DSL	Yes	...
7032	Yes	Yes	Fiber optic	No	...
7033	Yes	No	Fiber optic	No	...
7034	Yes	Yes	Fiber optic	Yes	...
7035	Yes	No	Fiber optic	No	...
7036	No	No phone service	DSL	No	...
7037	Yes	No	No	No internet service	...
7038	Yes	Yes	DSL	Yes	...
7039	Yes	Yes	Fiber optic	No	...
7040	No	No phone service	DSL	Yes	...
7041	Yes	Yes	Fiber optic	No	...
7042	Yes	No	Fiber optic	Yes	...

	DeviceProtection	TechSupport	StreamingTV	\
0	No	No	No	
1	Yes	No	No	
2	No	No	No	
3	Yes	Yes	No	
4	No	No	No	
5	Yes	No	Yes	
6	No	No	Yes	
7	No	No	No	
8	Yes	Yes	Yes	
9	No	No	No	
10	No	No	No	
11	No internet service	No internet service	No internet service	
12	Yes	No	Yes	
13	Yes	No	Yes	
14	Yes	Yes	Yes	
15	Yes	Yes	Yes	
16	No internet service	No internet service	No internet service	
17	Yes	No	Yes	
18	Yes	Yes	No	
19	Yes	No	No	
20	Yes	No	No	
21	No internet service	No internet service	No internet service	
22	No internet service	No internet service	No internet service	
23	No	Yes	No	
24	No	Yes	No	
25	No	No	No	
26	No	No	Yes	
27	No	No	No	

28	Yes	Yes	Yes
29	No	No	Yes
...
7013	Yes	No	Yes
7014	No	No	Yes
7015	Yes	No	Yes
7016	No	No	No
7017	No internet service	No internet service	No internet service
7018	No	No	No
7019	No internet service	No internet service	No internet service
7020	No internet service	No internet service	No internet service
7021	No	Yes	Yes
7022	Yes	No	Yes
7023	Yes	No	Yes
7024	Yes	No	No
7025	Yes	Yes	No
7026	No	No	No
7027	No	Yes	Yes
7028	No	Yes	Yes
7029	No	No	Yes
7030	No internet service	No internet service	No internet service
7031	No	No	No
7032	No	No	No
7033	No	No	No
7034	Yes	No	Yes
7035	No	No	Yes
7036	Yes	Yes	Yes
7037	No internet service	No internet service	No internet service
7038	Yes	Yes	Yes
7039	Yes	No	Yes
7040	No	No	No
7041	No	No	No
7042	Yes	Yes	Yes

	StreamingMovies	Contract	PaperlessBilling \
0	No	Month-to-month	Yes
1	No	One year	No
2	No	Month-to-month	Yes
3	No	One year	No
4	No	Month-to-month	Yes
5	Yes	Month-to-month	Yes
6	No	Month-to-month	Yes
7	No	Month-to-month	No
8	Yes	Month-to-month	Yes
9	No	One year	No
10	No	Month-to-month	Yes
11	No internet service	Two year	No
12	Yes	One year	No

13		Yes	Month-to-month	Yes
14		Yes	Month-to-month	Yes
15		Yes	Two year	No
16	No internet service		One year	No
17		Yes	Two year	No
18		No	Month-to-month	No
19		Yes	Month-to-month	Yes
20		Yes	Month-to-month	Yes
21	No internet service		One year	No
22	No internet service		Month-to-month	No
23		No	Two year	Yes
24		No	Month-to-month	No
25		No	Month-to-month	Yes
26		Yes	Month-to-month	Yes
27		No	Month-to-month	No
28		Yes	Two year	Yes
29		Yes	Month-to-month	Yes
...	
7013		No	Month-to-month	Yes
7014		No	Month-to-month	Yes
7015		No	Month-to-month	Yes
7016		No	Month-to-month	No
7017	No internet service		Two year	No
7018		No	Month-to-month	Yes
7019	No internet service		Two year	No
7020	No internet service		Month-to-month	Yes
7021		No	One year	Yes
7022		Yes	One year	Yes
7023		Yes	Month-to-month	Yes
7024		No	Month-to-month	Yes
7025		Yes	Month-to-month	Yes
7026		No	Month-to-month	Yes
7027		Yes	Month-to-month	No
7028		No	Two year	No
7029		Yes	Month-to-month	Yes
7030	No internet service		Month-to-month	Yes
7031		No	One year	No
7032		No	Month-to-month	Yes
7033		No	Month-to-month	Yes
7034		No	Month-to-month	Yes
7035		No	Month-to-month	Yes
7036		Yes	One year	No
7037	No internet service		Two year	Yes
7038		Yes	One year	Yes
7039		Yes	One year	Yes
7040		No	Month-to-month	Yes
7041		No	Month-to-month	Yes
7042		Yes	Two year	Yes

	PaymentMethod	MonthlyCharges	TotalCharges	Churn
0	Electronic check	29.85	29.85	No
1	Mailed check	56.95	1889.5	No
2	Mailed check	53.85	108.15	Yes
3	Bank transfer (automatic)	42.30	1840.75	No
4	Electronic check	70.70	151.65	Yes
5	Electronic check	99.65	820.5	Yes
6	Credit card (automatic)	89.10	1949.4	No
7	Mailed check	29.75	301.9	No
8	Electronic check	104.80	3046.05	Yes
9	Bank transfer (automatic)	56.15	3487.95	No
10	Mailed check	49.95	587.45	No
11	Credit card (automatic)	18.95	326.8	No
12	Credit card (automatic)	100.35	5681.1	No
13	Bank transfer (automatic)	103.70	5036.3	Yes
14	Electronic check	105.50	2686.05	No
15	Credit card (automatic)	113.25	7895.15	No
16	Mailed check	20.65	1022.95	No
17	Bank transfer (automatic)	106.70	7382.25	No
18	Credit card (automatic)	55.20	528.35	Yes
19	Electronic check	90.05	1862.9	No
20	Electronic check	39.65	39.65	Yes
21	Bank transfer (automatic)	19.80	202.25	No
22	Mailed check	20.15	20.15	Yes
23	Credit card (automatic)	59.90	3505.1	No
24	Credit card (automatic)	59.60	2970.3	No
25	Bank transfer (automatic)	55.30	1530.6	No
26	Electronic check	99.35	4749.15	Yes
27	Electronic check	30.20	30.2	Yes
28	Credit card (automatic)	90.25	6369.45	No
29	Mailed check	64.70	1093.1	Yes
...
7013	Bank transfer (automatic)	93.40	3756.4	No
7014	Electronic check	89.20	3645.75	No
7015	Credit card (automatic)	85.20	2874.45	No
7016	Electronic check	49.95	49.95	No
7017	Bank transfer (automatic)	20.65	1020.75	No
7018	Mailed check	70.65	70.65	Yes
7019	Mailed check	20.15	826	No
7020	Electronic check	19.20	239	No
7021	Electronic check	59.80	727.8	Yes
7022	Electronic check	104.95	7544.3	No
7023	Electronic check	103.50	6479.4	No
7024	Credit card (automatic)	84.80	3626.35	No
7025	Bank transfer (automatic)	95.05	1679.4	No
7026	Bank transfer (automatic)	44.20	403.35	Yes
7027	Mailed check	73.35	931.55	No

7028	Bank transfer (automatic)	64.10	4326.25	No
7029	Electronic check	44.40	263.05	No
7030	Mailed check	20.05	39.25	No
7031	Credit card (automatic)	60.00	3316.1	No
7032	Electronic check	75.75	75.75	Yes
7033	Credit card (automatic)	69.50	2625.25	No
7034	Credit card (automatic)	102.95	6886.25	Yes
7035	Bank transfer (automatic)	78.70	1495.1	No
7036	Electronic check	60.65	743.3	No
7037	Bank transfer (automatic)	21.15	1419.4	No
7038	Mailed check	84.80	1990.5	No
7039	Credit card (automatic)	103.20	7362.9	No
7040	Electronic check	29.60	346.45	No
7041	Mailed check	74.40	306.6	Yes
7042	Bank transfer (automatic)	105.65	6844.5	No

[7043 rows x 21 columns]

Senior Citizen column is responded with 0s and 1s while other yes/no columns are utilizing words (churning, paperless billing)

In multiple lines column - the no response varies between “no” and “no phone service”

In [4]: df.info()

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 7043 entries, 0 to 7042
Data columns (total 21 columns):
customerID      7043 non-null object
gender          7043 non-null object
SeniorCitizen   7043 non-null int64
Partner         7043 non-null object
Dependents      7043 non-null object
tenure          7043 non-null int64
PhoneService    7043 non-null object
MultipleLines   7043 non-null object
InternetService 7043 non-null object
OnlineSecurity  7043 non-null object
OnlineBackup    7043 non-null object
DeviceProtection 7043 non-null object
TechSupport     7043 non-null object
StreamingTV     7043 non-null object
StreamingMovies 7043 non-null object
Contract        7043 non-null object
PaperlessBilling 7043 non-null object
PaymentMethod   7043 non-null object
MonthlyCharges  7043 non-null float64
TotalCharges    7043 non-null object
```



```
Churn          7043 non-null object
dtypes: float64(1), int64(2), object(18)
memory usage: 1.1+ MB
```

Monthly charges appears as an object and should be reclassified as float64

```
In [5]: #Determine whether and customers/lines of data are duplicated through error
df[df['customerID'].duplicated()]
```

```
Out[5]: Empty DataFrame
```

```
Columns: [customerID, gender, SeniorCitizen, Partner, Dependents, tenure, PhoneService]
Index: []
```

```
[0 rows x 21 columns]
```

The lack of duplicated events seems to indicate accurate recording for the most part and a trustworthy data set

```
In [6]: df[df['MonthlyCharges'].isnull()]
df[df['PaymentMethod'].isnull()]
df[df['Churn'].isnull()]
df[df['customerID'].isnull()]
df.isnull()
```

```
Out[6]:
```

	customerID	gender	SeniorCitizen	Partner	Dependents	tenure	\
0	False	False	False	False	False	False	
1	False	False	False	False	False	False	
2	False	False	False	False	False	False	
3	False	False	False	False	False	False	
4	False	False	False	False	False	False	
5	False	False	False	False	False	False	
6	False	False	False	False	False	False	
7	False	False	False	False	False	False	
8	False	False	False	False	False	False	
9	False	False	False	False	False	False	
10	False	False	False	False	False	False	
11	False	False	False	False	False	False	
12	False	False	False	False	False	False	
13	False	False	False	False	False	False	
14	False	False	False	False	False	False	
15	False	False	False	False	False	False	
16	False	False	False	False	False	False	
17	False	False	False	False	False	False	
18	False	False	False	False	False	False	
19	False	False	False	False	False	False	
20	False	False	False	False	False	False	
21	False	False	False	False	False	False	

22	False	False	False	False	False	False
23	False	False	False	False	False	False
24	False	False	False	False	False	False
25	False	False	False	False	False	False
26	False	False	False	False	False	False
27	False	False	False	False	False	False
28	False	False	False	False	False	False
29	False	False	False	False	False	False
...
7013	False	False	False	False	False	False
7014	False	False	False	False	False	False
7015	False	False	False	False	False	False
7016	False	False	False	False	False	False
7017	False	False	False	False	False	False
7018	False	False	False	False	False	False
7019	False	False	False	False	False	False
7020	False	False	False	False	False	False
7021	False	False	False	False	False	False
7022	False	False	False	False	False	False
7023	False	False	False	False	False	False
7024	False	False	False	False	False	False
7025	False	False	False	False	False	False
7026	False	False	False	False	False	False
7027	False	False	False	False	False	False
7028	False	False	False	False	False	False
7029	False	False	False	False	False	False
7030	False	False	False	False	False	False
7031	False	False	False	False	False	False
7032	False	False	False	False	False	False
7033	False	False	False	False	False	False
7034	False	False	False	False	False	False
7035	False	False	False	False	False	False
7036	False	False	False	False	False	False
7037	False	False	False	False	False	False
7038	False	False	False	False	False	False
7039	False	False	False	False	False	False
7040	False	False	False	False	False	False
7041	False	False	False	False	False	False
7042	False	False	False	False	False	False

	PhoneService	MultipleLines	InternetService	OnlineSecurity	...	\
0	False	False	False	False	...	
1	False	False	False	False	...	
2	False	False	False	False	...	
3	False	False	False	False	...	
4	False	False	False	False	...	
5	False	False	False	False	...	
6	False	False	False	False	...	

7	False	False	False	False	...
8	False	False	False	False	...
9	False	False	False	False	...
10	False	False	False	False	...
11	False	False	False	False	...
12	False	False	False	False	...
13	False	False	False	False	...
14	False	False	False	False	...
15	False	False	False	False	...
16	False	False	False	False	...
17	False	False	False	False	...
18	False	False	False	False	...
19	False	False	False	False	...
20	False	False	False	False	...
21	False	False	False	False	...
22	False	False	False	False	...
23	False	False	False	False	...
24	False	False	False	False	...
25	False	False	False	False	...
26	False	False	False	False	...
27	False	False	False	False	...
28	False	False	False	False	...
29	False	False	False	False	...
...
7013	False	False	False	False	...
7014	False	False	False	False	...
7015	False	False	False	False	...
7016	False	False	False	False	...
7017	False	False	False	False	...
7018	False	False	False	False	...
7019	False	False	False	False	...
7020	False	False	False	False	...
7021	False	False	False	False	...
7022	False	False	False	False	...
7023	False	False	False	False	...
7024	False	False	False	False	...
7025	False	False	False	False	...
7026	False	False	False	False	...
7027	False	False	False	False	...
7028	False	False	False	False	...
7029	False	False	False	False	...
7030	False	False	False	False	...
7031	False	False	False	False	...
7032	False	False	False	False	...
7033	False	False	False	False	...
7034	False	False	False	False	...
7035	False	False	False	False	...
7036	False	False	False	False	...

7037	False	False	False	False	...
7038	False	False	False	False	...
7039	False	False	False	False	...
7040	False	False	False	False	...
7041	False	False	False	False	...
7042	False	False	False	False	...

	DeviceProtection	TechSupport	StreamingTV	StreamingMovies	Contract	\
0	False	False	False	False	False	
1	False	False	False	False	False	
2	False	False	False	False	False	
3	False	False	False	False	False	
4	False	False	False	False	False	
5	False	False	False	False	False	
6	False	False	False	False	False	
7	False	False	False	False	False	
8	False	False	False	False	False	
9	False	False	False	False	False	
10	False	False	False	False	False	
11	False	False	False	False	False	
12	False	False	False	False	False	
13	False	False	False	False	False	
14	False	False	False	False	False	
15	False	False	False	False	False	
16	False	False	False	False	False	
17	False	False	False	False	False	
18	False	False	False	False	False	
19	False	False	False	False	False	
20	False	False	False	False	False	
21	False	False	False	False	False	
22	False	False	False	False	False	
23	False	False	False	False	False	
24	False	False	False	False	False	
25	False	False	False	False	False	
26	False	False	False	False	False	
27	False	False	False	False	False	
28	False	False	False	False	False	
29	False	False	False	False	False	
...	
7013	False	False	False	False	False	
7014	False	False	False	False	False	
7015	False	False	False	False	False	
7016	False	False	False	False	False	
7017	False	False	False	False	False	
7018	False	False	False	False	False	
7019	False	False	False	False	False	
7020	False	False	False	False	False	
7021	False	False	False	False	False	

7022	False	False	False	False	False
7023	False	False	False	False	False
7024	False	False	False	False	False
7025	False	False	False	False	False
7026	False	False	False	False	False
7027	False	False	False	False	False
7028	False	False	False	False	False
7029	False	False	False	False	False
7030	False	False	False	False	False
7031	False	False	False	False	False
7032	False	False	False	False	False
7033	False	False	False	False	False
7034	False	False	False	False	False
7035	False	False	False	False	False
7036	False	False	False	False	False
7037	False	False	False	False	False
7038	False	False	False	False	False
7039	False	False	False	False	False
7040	False	False	False	False	False
7041	False	False	False	False	False
7042	False	False	False	False	False

	PaperlessBilling	PaymentMethod	MonthlyCharges	TotalCharges	Churn
0	False	False	False	False	False
1	False	False	False	False	False
2	False	False	False	False	False
3	False	False	False	False	False
4	False	False	False	False	False
5	False	False	False	False	False
6	False	False	False	False	False
7	False	False	False	False	False
8	False	False	False	False	False
9	False	False	False	False	False
10	False	False	False	False	False
11	False	False	False	False	False
12	False	False	False	False	False
13	False	False	False	False	False
14	False	False	False	False	False
15	False	False	False	False	False
16	False	False	False	False	False
17	False	False	False	False	False
18	False	False	False	False	False
19	False	False	False	False	False
20	False	False	False	False	False
21	False	False	False	False	False
22	False	False	False	False	False
23	False	False	False	False	False
24	False	False	False	False	False

25	False	False	False	False	False
26	False	False	False	False	False
27	False	False	False	False	False
28	False	False	False	False	False
29	False	False	False	False	False
...
7013	False	False	False	False	False
7014	False	False	False	False	False
7015	False	False	False	False	False
7016	False	False	False	False	False
7017	False	False	False	False	False
7018	False	False	False	False	False
7019	False	False	False	False	False
7020	False	False	False	False	False
7021	False	False	False	False	False
7022	False	False	False	False	False
7023	False	False	False	False	False
7024	False	False	False	False	False
7025	False	False	False	False	False
7026	False	False	False	False	False
7027	False	False	False	False	False
7028	False	False	False	False	False
7029	False	False	False	False	False
7030	False	False	False	False	False
7031	False	False	False	False	False
7032	False	False	False	False	False
7033	False	False	False	False	False
7034	False	False	False	False	False
7035	False	False	False	False	False
7036	False	False	False	False	False
7037	False	False	False	False	False
7038	False	False	False	False	False
7039	False	False	False	False	False
7040	False	False	False	False	False
7041	False	False	False	False	False
7042	False	False	False	False	False

[7043 rows x 21 columns]

In [7]: df.describe()

```
Out[7]:
```

	SeniorCitizen	tenure	MonthlyCharges
count	7043.000000	7043.000000	7043.000000
mean	0.162147	32.371149	64.761692
std	0.368612	24.559481	30.090047
min	0.000000	0.000000	18.250000
25%	0.000000	9.000000	35.500000
50%	0.000000	29.000000	70.350000

75%	0.000000	55.000000	89.850000
max	1.000000	72.000000	118.750000

1.1.1 In Summary:

Problem 1: Senior Citizen column utilizes 0s and 1s while other yes/no columns are utilizing words (gender, partner, dependents, phone service, churn, paperless billing)

Problem 2: In “multiple lines” column - the no response varies between “no” and “no phone service”

Problem 3: Total charges appears as an object and should be reclassified as float64

Problem 4: Variable Headers have inconsistent formatting

Problem 5: Payment Method and Internet Services Variables must be uncomplicated to reveal only one piece of information

Problem 6: NaN values in Total Charges

1.2 B.) Clean the DataSet

Problem 1: Senior Citizen column utilizes 0s and 1s while other yes/no columns are utilizing words (gender, partner, dependents, phone service, churn, paperless billing)

Solution 1: Assign 0s to No response and 1s to Yes Response in above columns

In [8]: *#First create a copy data set:*

```
df = df.copy()
#For each Variable, I use the replace function to assign numerical values of Zero and One
#facilitate further analysis on these variables
df.gender.replace(('Female', 'Male'), (1,0), inplace=True)
df['Partner'].replace(('Yes', 'No'), (1,0), inplace=True)
df['Dependents'].replace(('Yes', 'No'), (1,0), inplace=True)
df['PhoneService'].replace(('Yes', 'No'), (1,0), inplace=True)
df['PaperlessBilling'].replace(('Yes', 'No'), (1,0), inplace=True)
df['Churn'].replace(('Yes', 'No'), (1,0), inplace=True)
```

In [9]: *#The following validates all changes made to the dataset*

df

```
Out[9]:
```

	customerID	gender	SeniorCitizen	Partner	Dependents	tenure	\
0	7590-VHVEG	1	0	1	0	1	
1	5575-GNVDE	0	0	0	0	34	
2	3668-QPYBK	0	0	0	0	2	
3	7795-CFOCW	0	0	0	0	45	
4	9237-HQITU	1	0	0	0	2	
5	9305-CDSKC	1	0	0	0	8	
6	1452-KIOVK	0	0	0	1	22	
7	6713-OKOMC	1	0	0	0	10	
8	7892-POOKP	1	0	1	0	28	
9	6388-TABGU	0	0	0	1	62	
10	9763-GRSKD	0	0	1	1	13	
11	7469-LKBCI	0	0	0	0	16	

12	8091-TTVAX	0	0	1	0	58
13	0280-XJGEX	0	0	0	0	49
14	5129-JLPIS	0	0	0	0	25
15	3655-SNQYZ	1	0	1	1	69
16	8191-XWSZG	1	0	0	0	52
17	9959-WOFKT	0	0	0	1	71
18	4190-MFLUW	1	0	1	1	10
19	4183-MYFRB	1	0	0	0	21
20	8779-QRDMV	0	1	0	0	1
21	1680-VDCWW	0	0	1	0	12
22	1066-JKSGK	0	0	0	0	1
23	3638-WEABW	1	0	1	0	58
24	6322-HRPFA	0	0	1	1	49
25	6865-JZTKO	1	0	0	0	30
26	6467-CHFZW	0	0	1	1	47
27	8665-UTDHz	0	0	1	1	1
28	5248-YGIJN	0	0	1	0	72
29	8773-HHUOZ	1	0	0	1	17
...
7013	1685-BQULA	1	0	0	0	40
7014	9053-EJUNL	0	0	0	0	41
7015	0666-UCTJO	0	1	1	0	34
7016	1471-GIQKQ	1	0	0	0	1
7017	4807-IZYOZ	1	0	0	0	51
7018	1122-JWTJW	0	0	1	1	1
7019	9710-NJERN	1	0	0	0	39
7020	9837-FWLCH	0	0	1	1	12
7021	1699-HPSBG	0	0	0	0	12
7022	7203-OYKCT	0	0	0	0	72
7023	1035-IPQPU	1	1	1	0	63
7024	7398-LXGYX	0	0	1	0	44
7025	2823-LKABH	1	0	0	0	18
7026	8775-CEBBJ	1	0	0	0	9
7027	0550-DCXLH	0	0	0	0	13
7028	9281-CEDRU	1	0	1	0	68
7029	2235-DWLJU	1	1	0	0	6
7030	0871-OPBXW	1	0	0	0	2
7031	3605-JISKB	0	1	1	0	55
7032	6894-LFHLy	0	1	0	0	1
7033	9767-FFLEM	0	0	0	0	38
7034	0639-TSIQW	1	0	0	0	67
7035	8456-QDAVC	0	0	0	0	19
7036	7750-EYXWZ	1	0	0	0	12
7037	2569-WGERO	1	0	0	0	72
7038	6840-RESVB	0	0	1	1	24
7039	2234-XADUH	1	0	1	1	72
7040	4801-JZAZL	1	0	1	1	11
7041	8361-LTMKD	0	1	1	0	4

7042 3186-AJIEK 0 0 0 0 66

	PhoneService	MultipleLines	InternetService	OnlineSecurity \
0	0	No phone service	DSL	No
1	1	No	DSL	Yes
2	1	No	DSL	Yes
3	0	No phone service	DSL	Yes
4	1	No	Fiber optic	No
5	1	Yes	Fiber optic	No
6	1	Yes	Fiber optic	No
7	0	No phone service	DSL	Yes
8	1	Yes	Fiber optic	No
9	1	No	DSL	Yes
10	1	No	DSL	Yes
11	1	No	No	No internet service
12	1	Yes	Fiber optic	No
13	1	Yes	Fiber optic	No
14	1	No	Fiber optic	Yes
15	1	Yes	Fiber optic	Yes
16	1	No	No	No internet service
17	1	Yes	Fiber optic	Yes
18	1	No	DSL	No
19	1	No	Fiber optic	No
20	0	No phone service	DSL	No
21	1	No	No	No internet service
22	1	No	No	No internet service
23	1	Yes	DSL	No
24	1	No	DSL	Yes
25	1	No	DSL	Yes
26	1	Yes	Fiber optic	No
27	0	No phone service	DSL	No
28	1	Yes	DSL	Yes
29	1	No	DSL	No
...
7013	1	Yes	Fiber optic	No
7014	1	Yes	Fiber optic	No
7015	1	No	Fiber optic	No
7016	1	No	DSL	No
7017	1	No	No	No internet service
7018	1	No	Fiber optic	No
7019	1	No	No	No internet service
7020	1	No	No	No internet service
7021	1	No	DSL	No
7022	1	Yes	Fiber optic	No
7023	1	Yes	Fiber optic	No
7024	1	Yes	Fiber optic	Yes
7025	1	Yes	Fiber optic	No
7026	1	No	DSL	No

7027	1	No	DSL	No
7028	1	No	DSL	No
7029	0	No phone service	DSL	No
7030	1	No	No	No internet service
7031	1	Yes	DSL	Yes
7032	1	Yes	Fiber optic	No
7033	1	No	Fiber optic	No
7034	1	Yes	Fiber optic	Yes
7035	1	No	Fiber optic	No
7036	0	No phone service	DSL	No
7037	1	No	No	No internet service
7038	1	Yes	DSL	Yes
7039	1	Yes	Fiber optic	No
7040	0	No phone service	DSL	Yes
7041	1	Yes	Fiber optic	No
7042	1	No	Fiber optic	Yes

	...	DeviceProtection	TechSupport	StreamingTV \
0	...	No	No	No
1	...	Yes	No	No
2	...	No	No	No
3	...	Yes	Yes	No
4	...	No	No	No
5	...	Yes	No	Yes
6	...	No	No	Yes
7	...	No	No	No
8	...	Yes	Yes	Yes
9	...	No	No	No
10	...	No	No	No
11	...	No internet service	No internet service	No internet service
12	...	Yes	No	Yes
13	...	Yes	No	Yes
14	...	Yes	Yes	Yes
15	...	Yes	Yes	Yes
16	...	No internet service	No internet service	No internet service
17	...	Yes	No	Yes
18	...	Yes	Yes	No
19	...	Yes	No	No
20	...	Yes	No	No
21	...	No internet service	No internet service	No internet service
22	...	No internet service	No internet service	No internet service
23	...	No	Yes	No
24	...	No	Yes	No
25	...	No	No	No
26	...	No	No	Yes
27	...	No	No	No
28	...	Yes	Yes	Yes
29	...	No	No	Yes

...
7013	...	Yes	No	Yes
7014	...	No	No	Yes
7015	...	Yes	No	Yes
7016	...	No	No	No
7017	...	No internet service	No internet service	No internet service
7018	...	No	No	No
7019	...	No internet service	No internet service	No internet service
7020	...	No internet service	No internet service	No internet service
7021	...	No	Yes	Yes
7022	...	Yes	No	Yes
7023	...	Yes	No	Yes
7024	...	Yes	No	No
7025	...	Yes	Yes	No
7026	...	No	No	No
7027	...	No	Yes	Yes
7028	...	No	Yes	Yes
7029	...	No	No	Yes
7030	...	No internet service	No internet service	No internet service
7031	...	No	No	No
7032	...	No	No	No
7033	...	No	No	No
7034	...	Yes	No	Yes
7035	...	No	No	Yes
7036	...	Yes	Yes	Yes
7037	...	No internet service	No internet service	No internet service
7038	...	Yes	Yes	Yes
7039	...	Yes	No	Yes
7040	...	No	No	No
7041	...	No	No	No
7042	...	Yes	Yes	Yes

	StreamingMovies	Contract	PaperlessBilling \
0	No	Month-to-month	1
1	No	One year	0
2	No	Month-to-month	1
3	No	One year	0
4	No	Month-to-month	1
5	Yes	Month-to-month	1
6	No	Month-to-month	1
7	No	Month-to-month	0
8	Yes	Month-to-month	1
9	No	One year	0
10	No	Month-to-month	1
11	No internet service	Two year	0
12	Yes	One year	0
13	Yes	Month-to-month	1
14	Yes	Month-to-month	1

15		Yes	Two year	0
16	No internet service		One year	0
17		Yes	Two year	0
18		No	Month-to-month	0
19		Yes	Month-to-month	1
20		Yes	Month-to-month	1
21	No internet service		One year	0
22	No internet service		Month-to-month	0
23		No	Two year	1
24		No	Month-to-month	0
25		No	Month-to-month	1
26		Yes	Month-to-month	1
27		No	Month-to-month	0
28		Yes	Two year	1
29		Yes	Month-to-month	1
...	
7013		No	Month-to-month	1
7014		No	Month-to-month	1
7015		No	Month-to-month	1
7016		No	Month-to-month	0
7017	No internet service		Two year	0
7018		No	Month-to-month	1
7019	No internet service		Two year	0
7020	No internet service		Month-to-month	1
7021		No	One year	1
7022		Yes	One year	1
7023		Yes	Month-to-month	1
7024		No	Month-to-month	1
7025		Yes	Month-to-month	1
7026		No	Month-to-month	1
7027		Yes	Month-to-month	0
7028		No	Two year	0
7029		Yes	Month-to-month	1
7030	No internet service		Month-to-month	1
7031		No	One year	0
7032		No	Month-to-month	1
7033		No	Month-to-month	1
7034		No	Month-to-month	1
7035		No	Month-to-month	1
7036		Yes	One year	0
7037	No internet service		Two year	1
7038		Yes	One year	1
7039		Yes	One year	1
7040		No	Month-to-month	1
7041		No	Month-to-month	1
7042		Yes	Two year	1

PaymentMethod MonthlyCharges TotalCharges Churn

0	Electronic check	29.85	29.85	0
1	Mailed check	56.95	1889.5	0
2	Mailed check	53.85	108.15	1
3	Bank transfer (automatic)	42.30	1840.75	0
4	Electronic check	70.70	151.65	1
5	Electronic check	99.65	820.5	1
6	Credit card (automatic)	89.10	1949.4	0
7	Mailed check	29.75	301.9	0
8	Electronic check	104.80	3046.05	1
9	Bank transfer (automatic)	56.15	3487.95	0
10	Mailed check	49.95	587.45	0
11	Credit card (automatic)	18.95	326.8	0
12	Credit card (automatic)	100.35	5681.1	0
13	Bank transfer (automatic)	103.70	5036.3	1
14	Electronic check	105.50	2686.05	0
15	Credit card (automatic)	113.25	7895.15	0
16	Mailed check	20.65	1022.95	0
17	Bank transfer (automatic)	106.70	7382.25	0
18	Credit card (automatic)	55.20	528.35	1
19	Electronic check	90.05	1862.9	0
20	Electronic check	39.65	39.65	1
21	Bank transfer (automatic)	19.80	202.25	0
22	Mailed check	20.15	20.15	1
23	Credit card (automatic)	59.90	3505.1	0
24	Credit card (automatic)	59.60	2970.3	0
25	Bank transfer (automatic)	55.30	1530.6	0
26	Electronic check	99.35	4749.15	1
27	Electronic check	30.20	30.2	1
28	Credit card (automatic)	90.25	6369.45	0
29	Mailed check	64.70	1093.1	1
...
7013	Bank transfer (automatic)	93.40	3756.4	0
7014	Electronic check	89.20	3645.75	0
7015	Credit card (automatic)	85.20	2874.45	0
7016	Electronic check	49.95	49.95	0
7017	Bank transfer (automatic)	20.65	1020.75	0
7018	Mailed check	70.65	70.65	1
7019	Mailed check	20.15	826	0
7020	Electronic check	19.20	239	0
7021	Electronic check	59.80	727.8	1
7022	Electronic check	104.95	7544.3	0
7023	Electronic check	103.50	6479.4	0
7024	Credit card (automatic)	84.80	3626.35	0
7025	Bank transfer (automatic)	95.05	1679.4	0
7026	Bank transfer (automatic)	44.20	403.35	1
7027	Mailed check	73.35	931.55	0
7028	Bank transfer (automatic)	64.10	4326.25	0
7029	Electronic check	44.40	263.05	0

7030	Mailed check	20.05	39.25	0
7031	Credit card (automatic)	60.00	3316.1	0
7032	Electronic check	75.75	75.75	1
7033	Credit card (automatic)	69.50	2625.25	0
7034	Credit card (automatic)	102.95	6886.25	1
7035	Bank transfer (automatic)	78.70	1495.1	0
7036	Electronic check	60.65	743.3	0
7037	Bank transfer (automatic)	21.15	1419.4	0
7038	Mailed check	84.80	1990.5	0
7039	Credit card (automatic)	103.20	7362.9	0
7040	Electronic check	29.60	346.45	0
7041	Mailed check	74.40	306.6	1
7042	Bank transfer (automatic)	105.65	6844.5	0

[7043 rows x 21 columns]

Problem 2: In “multiple lines” column - the no response varies between “no” and “no phone service”, other columns have similar issues

Solution 2: For all values “yes” in each column, replace with 1, all other responses, replace with 0

```
In [10]: #Use the eq and mul functions in python to replace Yes with 1, and all other values w
df['MultipleLines'] = df['MultipleLines'].eq('Yes').mul(1)
df['OnlineSecurity'] = df['OnlineSecurity'].eq('Yes').mul(1)
df['OnlineBackup'] = df['OnlineBackup'].eq('Yes').mul(1)
df['DeviceProtection'] = df['DeviceProtection'].eq('Yes').mul(1)
df['TechSupport'] = df['TechSupport'].eq('Yes').mul(1)
df['StreamingTV'] = df['StreamingTV'].eq('Yes').mul(1)
df['StreamingMovies'] = df['StreamingMovies'].eq('Yes').mul(1)
```

```
In [11]: #Validate the success of the operation with the following code
df
```

```
Out[11]:
```

	customerID	gender	SeniorCitizen	Partner	Dependents	tenure	\
0	7590-VHVEG	1	0	1	0	1	
1	5575-GNVDE	0	0	0	0	34	
2	3668-QPYBK	0	0	0	0	2	
3	7795-CFOCW	0	0	0	0	45	
4	9237-HQITU	1	0	0	0	2	
5	9305-CDSKC	1	0	0	0	8	
6	1452-KIOVK	0	0	0	1	22	
7	6713-OKOMC	1	0	0	0	10	
8	7892-POOKP	1	0	1	0	28	
9	6388-TABGU	0	0	0	1	62	
10	9763-GRSKD	0	0	1	1	13	
11	7469-LKBCI	0	0	0	0	16	
12	8091-TTVAX	0	0	1	0	58	

13	0280-XJGEX	0	0	0	0	49
14	5129-JLPIS	0	0	0	0	25
15	3655-SNQYZ	1	0	1	1	69
16	8191-XWSZG	1	0	0	0	52
17	9959-WOFKT	0	0	0	1	71
18	4190-MFLUW	1	0	1	1	10
19	4183-MYFRB	1	0	0	0	21
20	8779-QRDMV	0	1	0	0	1
21	1680-VDCWW	0	0	1	0	12
22	1066-JKSGK	0	0	0	0	1
23	3638-WEABW	1	0	1	0	58
24	6322-HRPFA	0	0	1	1	49
25	6865-JZNKO	1	0	0	0	30
26	6467-CHFZW	0	0	1	1	47
27	8665-UTDHZ	0	0	1	1	1
28	5248-YGIJN	0	0	1	0	72
29	8773-HHUOZ	1	0	0	1	17
...
7013	1685-BQULA	1	0	0	0	40
7014	9053-EJUNL	0	0	0	0	41
7015	0666-UXTJO	0	1	1	0	34
7016	1471-GIQKQ	1	0	0	0	1
7017	4807-IZYOZ	1	0	0	0	51
7018	1122-JWTJW	0	0	1	1	1
7019	9710-NJERN	1	0	0	0	39
7020	9837-FWLCH	0	0	1	1	12
7021	1699-HPSBG	0	0	0	0	12
7022	7203-OYKCT	0	0	0	0	72
7023	1035-IPQPU	1	1	1	0	63
7024	7398-LXGYX	0	0	1	0	44
7025	2823-LKABH	1	0	0	0	18
7026	8775-CEBBJ	1	0	0	0	9
7027	0550-DCXLH	0	0	0	0	13
7028	9281-CEDRU	1	0	1	0	68
7029	2235-DWLJU	1	1	0	0	6
7030	0871-OPBXW	1	0	0	0	2
7031	3605-JISKB	0	1	1	0	55
7032	6894-LFHLY	0	1	0	0	1
7033	9767-FFLEM	0	0	0	0	38
7034	0639-TSIQW	1	0	0	0	67
7035	8456-QDAVC	0	0	0	0	19
7036	7750-EYXWZ	1	0	0	0	12
7037	2569-WGERO	1	0	0	0	72
7038	6840-RESVB	0	0	1	1	24
7039	2234-XADUH	1	0	1	1	72
7040	4801-JZAZL	1	0	1	1	11
7041	8361-LTMKD	0	1	1	0	4
7042	3186-AJIEK	0	0	0	0	66

	PhoneService	MultipleLines	InternetService	OnlineSecurity	...	\
0	0	0	DSL	0	...	
1	1	0	DSL	1	...	
2	1	0	DSL	1	...	
3	0	0	DSL	1	...	
4	1	0	Fiber optic	0	...	
5	1	1	Fiber optic	0	...	
6	1	1	Fiber optic	0	...	
7	0	0	DSL	1	...	
8	1	1	Fiber optic	0	...	
9	1	0	DSL	1	...	
10	1	0	DSL	1	...	
11	1	0	No	0	...	
12	1	1	Fiber optic	0	...	
13	1	1	Fiber optic	0	...	
14	1	0	Fiber optic	1	...	
15	1	1	Fiber optic	1	...	
16	1	0	No	0	...	
17	1	1	Fiber optic	1	...	
18	1	0	DSL	0	...	
19	1	0	Fiber optic	0	...	
20	0	0	DSL	0	...	
21	1	0	No	0	...	
22	1	0	No	0	...	
23	1	1	DSL	0	...	
24	1	0	DSL	1	...	
25	1	0	DSL	1	...	
26	1	1	Fiber optic	0	...	
27	0	0	DSL	0	...	
28	1	1	DSL	1	...	
29	1	0	DSL	0	...	
...	
7013	1	1	Fiber optic	0	...	
7014	1	1	Fiber optic	0	...	
7015	1	0	Fiber optic	0	...	
7016	1	0	DSL	0	...	
7017	1	0	No	0	...	
7018	1	0	Fiber optic	0	...	
7019	1	0	No	0	...	
7020	1	0	No	0	...	
7021	1	0	DSL	0	...	
7022	1	1	Fiber optic	0	...	
7023	1	1	Fiber optic	0	...	
7024	1	1	Fiber optic	1	...	
7025	1	1	Fiber optic	0	...	
7026	1	0	DSL	0	...	
7027	1	0	DSL	0	...	

7028	1	0	DSL	0	...
7029	0	0	DSL	0	...
7030	1	0	No	0	...
7031	1	1	DSL	1	...
7032	1	1	Fiber optic	0	...
7033	1	0	Fiber optic	0	...
7034	1	1	Fiber optic	1	...
7035	1	0	Fiber optic	0	...
7036	0	0	DSL	0	...
7037	1	0	No	0	...
7038	1	1	DSL	1	...
7039	1	1	Fiber optic	0	...
7040	0	0	DSL	1	...
7041	1	1	Fiber optic	0	...
7042	1	0	Fiber optic	1	...

	DeviceProtection	TechSupport	StreamingTV	StreamingMovies	\
0	0	0	0	0	
1	1	0	0	0	
2	0	0	0	0	
3	1	1	0	0	
4	0	0	0	0	
5	1	0	1	1	
6	0	0	1	0	
7	0	0	0	0	
8	1	1	1	1	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	1	0	1	1	
13	1	0	1	1	
14	1	1	1	1	
15	1	1	1	1	
16	0	0	0	0	
17	1	0	1	1	
18	1	1	0	0	
19	1	0	0	1	
20	1	0	0	1	
21	0	0	0	0	
22	0	0	0	0	
23	0	1	0	0	
24	0	1	0	0	
25	0	0	0	0	
26	0	0	1	1	
27	0	0	0	0	
28	1	1	1	1	
29	0	0	1	1	
...	

7013	1	0	1	0
7014	0	0	1	0
7015	1	0	1	0
7016	0	0	0	0
7017	0	0	0	0
7018	0	0	0	0
7019	0	0	0	0
7020	0	0	0	0
7021	0	1	1	0
7022	1	0	1	1
7023	1	0	1	1
7024	1	0	0	0
7025	1	1	0	1
7026	0	0	0	0
7027	0	1	1	1
7028	0	1	1	0
7029	0	0	1	1
7030	0	0	0	0
7031	0	0	0	0
7032	0	0	0	0
7033	0	0	0	0
7034	1	0	1	0
7035	0	0	1	0
7036	1	1	1	1
7037	0	0	0	0
7038	1	1	1	1
7039	1	0	1	1
7040	0	0	0	0
7041	0	0	0	0
7042	1	1	1	1

	Contract	PaperlessBilling	PaymentMethod \
0	Month-to-month	1	Electronic check
1	One year	0	Mailed check
2	Month-to-month	1	Mailed check
3	One year	0	Bank transfer (automatic)
4	Month-to-month	1	Electronic check
5	Month-to-month	1	Electronic check
6	Month-to-month	1	Credit card (automatic)
7	Month-to-month	0	Mailed check
8	Month-to-month	1	Electronic check
9	One year	0	Bank transfer (automatic)
10	Month-to-month	1	Mailed check
11	Two year	0	Credit card (automatic)
12	One year	0	Credit card (automatic)
13	Month-to-month	1	Bank transfer (automatic)
14	Month-to-month	1	Electronic check
15	Two year	0	Credit card (automatic)

16	One year	0	Mailed check
17	Two year	0	Bank transfer (automatic)
18	Month-to-month	0	Credit card (automatic)
19	Month-to-month	1	Electronic check
20	Month-to-month	1	Electronic check
21	One year	0	Bank transfer (automatic)
22	Month-to-month	0	Mailed check
23	Two year	1	Credit card (automatic)
24	Month-to-month	0	Credit card (automatic)
25	Month-to-month	1	Bank transfer (automatic)
26	Month-to-month	1	Electronic check
27	Month-to-month	0	Electronic check
28	Two year	1	Credit card (automatic)
29	Month-to-month	1	Mailed check
...
7013	Month-to-month	1	Bank transfer (automatic)
7014	Month-to-month	1	Electronic check
7015	Month-to-month	1	Credit card (automatic)
7016	Month-to-month	0	Electronic check
7017	Two year	0	Bank transfer (automatic)
7018	Month-to-month	1	Mailed check
7019	Two year	0	Mailed check
7020	Month-to-month	1	Electronic check
7021	One year	1	Electronic check
7022	One year	1	Electronic check
7023	Month-to-month	1	Electronic check
7024	Month-to-month	1	Credit card (automatic)
7025	Month-to-month	1	Bank transfer (automatic)
7026	Month-to-month	1	Bank transfer (automatic)
7027	Month-to-month	0	Mailed check
7028	Two year	0	Bank transfer (automatic)
7029	Month-to-month	1	Electronic check
7030	Month-to-month	1	Mailed check
7031	One year	0	Credit card (automatic)
7032	Month-to-month	1	Electronic check
7033	Month-to-month	1	Credit card (automatic)
7034	Month-to-month	1	Credit card (automatic)
7035	Month-to-month	1	Bank transfer (automatic)
7036	One year	0	Electronic check
7037	Two year	1	Bank transfer (automatic)
7038	One year	1	Mailed check
7039	One year	1	Credit card (automatic)
7040	Month-to-month	1	Electronic check
7041	Month-to-month	1	Mailed check
7042	Two year	1	Bank transfer (automatic)

	MonthlyCharges	TotalCharges	Churn
0	29.85	29.85	0

1	56.95	1889.5	0
2	53.85	108.15	1
3	42.30	1840.75	0
4	70.70	151.65	1
5	99.65	820.5	1
6	89.10	1949.4	0
7	29.75	301.9	0
8	104.80	3046.05	1
9	56.15	3487.95	0
10	49.95	587.45	0
11	18.95	326.8	0
12	100.35	5681.1	0
13	103.70	5036.3	1
14	105.50	2686.05	0
15	113.25	7895.15	0
16	20.65	1022.95	0
17	106.70	7382.25	0
18	55.20	528.35	1
19	90.05	1862.9	0
20	39.65	39.65	1
21	19.80	202.25	0
22	20.15	20.15	1
23	59.90	3505.1	0
24	59.60	2970.3	0
25	55.30	1530.6	0
26	99.35	4749.15	1
27	30.20	30.2	1
28	90.25	6369.45	0
29	64.70	1093.1	1
...
7013	93.40	3756.4	0
7014	89.20	3645.75	0
7015	85.20	2874.45	0
7016	49.95	49.95	0
7017	20.65	1020.75	0
7018	70.65	70.65	1
7019	20.15	826	0
7020	19.20	239	0
7021	59.80	727.8	1
7022	104.95	7544.3	0
7023	103.50	6479.4	0
7024	84.80	3626.35	0
7025	95.05	1679.4	0
7026	44.20	403.35	1
7027	73.35	931.55	0
7028	64.10	4326.25	0
7029	44.40	263.05	0
7030	20.05	39.25	0

7031	60.00	3316.1	0
7032	75.75	75.75	1
7033	69.50	2625.25	0
7034	102.95	6886.25	1
7035	78.70	1495.1	0
7036	60.65	743.3	0
7037	21.15	1419.4	0
7038	84.80	1990.5	0
7039	103.20	7362.9	0
7040	29.60	346.45	0
7041	74.40	306.6	1
7042	105.65	6844.5	0

[7043 rows x 21 columns]

Problem 3: Total charges appears as an object and should be reclassified as float64

Solution 3: Use astype function to reassign objects to int64 and float64

In [12]: *#This code allows the user to display more of the df without truncation*
 pd.set_option('display.max_rows', 1000)

In [13]: *#I first separated the column and converted it into a Pandas Series*
 new_str = df['TotalCharges']
 new_str2 = pd.Series(new_str)

In [14]: *#I then changed the format of the strings into numeric formats*
 my_series = pd.to_numeric(new_str2, errors='coerce')
#This code necessitated the coercion of errors due to the empty values - these were t
 my_series

Out[14]: 0 29.85
 1 1889.50
 2 108.15
 3 1840.75
 4 151.65
 5 820.50
 6 1949.40
 7 301.90
 8 3046.05
 9 3487.95
 10 587.45
 11 326.80
 12 5681.10
 13 5036.30
 14 2686.05
 15 7895.15
 16 1022.95

17	7382.25
18	528.35
19	1862.90
20	39.65
21	202.25
22	20.15
23	3505.10
24	2970.30
25	1530.60
26	4749.15
27	30.20
28	6369.45
29	1093.10
30	6766.95
31	181.65
32	1874.45
33	20.20
34	45.25
35	7251.70
36	316.90
37	3548.30
38	3549.25
39	1105.40
40	475.70
41	4872.35
42	418.25
43	4861.45
44	981.45
45	3906.70
46	97.00
47	144.15
48	4217.80
49	4254.10
50	3838.75
51	1426.40
52	1752.65
53	633.30
54	4456.35
55	1752.55
56	6311.20
57	7076.35
58	894.30
59	7853.70
60	4707.10
61	5450.70
62	2962.00
63	957.10
64	857.25

65	244.10
66	3650.35
67	2497.20
68	930.90
69	887.35
70	49.05
71	1090.65
72	7099.00
73	1424.60
74	177.40
75	6139.50
76	2688.85
77	482.25
78	2111.30
79	1216.60
80	79.35
81	565.35
82	496.90
83	4327.50
84	973.35
85	918.75
86	2215.45
87	1057.00
88	927.10
89	1009.25
90	2570.20
91	74.70
92	5714.25
93	7107.00
94	7459.05
95	927.35
96	4748.70
97	113.85
98	1107.20
99	2514.50
100	20.20
101	19.45
102	3605.60
103	3027.25
104	7611.85
105	100.20
106	7303.05
107	927.65
108	3921.30
109	1363.25
110	5238.90
111	3042.25
112	3954.10

113	2868.15
114	3423.50
115	248.40
116	1126.35
117	1064.65
118	835.15
119	2151.60
120	5515.45
121	112.75
122	229.55
123	350.35
124	62.90
125	3027.65
126	2135.50
127	1723.95
128	19.75
129	3985.35
130	1215.65
131	1502.65
132	3260.10
133	35.45
134	81.25
135	1188.20
136	1778.50
137	1277.75
138	1170.55
139	70.45
140	6425.65
141	563.65
142	5971.25
143	5289.05
144	1756.20
145	6416.70
146	61.35
147	45.65
148	1929.95
149	1071.40
150	564.35
151	655.50
152	7930.55
153	5215.25
154	113.50
155	1152.80
156	1821.95
157	419.90
158	1024.00
159	251.60
160	764.55

161	1592.35
162	135.20
163	3958.25
164	233.90
165	1363.45
166	273.00
167	6254.45
168	2651.20
169	321.40
170	3539.25
171	242.80
172	1181.75
173	5000.20
174	654.55
175	780.20
176	1145.70
177	503.60
178	1559.25
179	1252.00
180	29.95
181	45.30
182	662.65
183	2453.30
184	1111.65
185	24.80
186	1023.85
187	82.15
188	244.80
189	2379.10
190	3173.35
191	531.00
192	1375.40
193	8129.30
194	1192.70
195	1901.65
196	587.40
197	6519.75
198	8041.65
199	20.75
200	2681.15
201	1112.30
202	7405.50
203	1033.95
204	2958.95
205	2684.85
206	4179.20
207	79.90
208	1934.45

209	6654.10
210	84.50
211	25.25
212	1124.20
213	540.05
214	1975.85
215	3437.45
216	3139.80
217	3789.20
218	5324.50
219	624.60
220	268.35
221	1836.90
222	20.20
223	179.35
224	219.35
225	1288.75
226	2545.75
227	55.20
228	2723.15
229	4107.25
230	5760.65
231	4747.50
232	84.60
233	1566.90
234	702.00
235	114.10
236	299.05
237	1305.95
238	1120.30
239	284.35
240	6350.50
241	7878.30
242	3187.65
243	6126.15
244	731.30
245	273.40
246	2531.80
247	1074.30
248	48.55
249	4298.45
250	4619.55
251	147.15
252	40.20
253	2633.30
254	193.05
255	4103.90
256	7008.15

257	5791.10
258	80.55
259	1228.65
260	132.20
261	1364.30
262	4925.35
263	1520.10
264	5032.25
265	5526.75
266	1195.25
267	2007.25
268	1099.60
269	1732.95
270	1511.20
271	3450.15
272	24.80
273	2172.05
274	70.60
275	401.10
276	5624.85
277	1339.80
278	771.95
279	244.75
280	322.90
281	498.25
282	25.40
283	3687.75
284	1779.95
285	1783.60
286	927.15
287	70.00
288	606.55
289	435.40
290	1712.70
291	2021.20
292	1940.80
293	567.80
294	220.35
295	20.25
296	5436.45
297	3437.50
298	3015.75
299	73.60
300	1509.80
301	396.10
302	356.65
303	4109.00
304	3141.70

305	1229.10
306	2303.35
307	2054.40
308	3741.85
309	3682.45
310	19.25
311	1886.25
312	4895.10
313	341.60
314	415.55
315	5686.40
316	1355.10
317	3058.65
318	2231.05
319	3236.35
320	4350.10
321	4264.00
322	44.80
323	422.30
324	4176.70
325	5138.10
326	880.05
327	139.05
328	973.65
329	1470.05
330	739.35
331	161.95
332	4422.95
333	511.25
334	155.80
335	5293.95
336	4759.85
337	6148.45
338	3565.65
339	6603.00
340	1830.10
341	6223.80
342	4508.65
343	1328.15
344	865.00
345	72.10
346	168.20
347	1303.50
348	996.85
349	6430.90
350	2278.75
351	681.40
352	574.35

353	371.90
354	840.10
355	846.00
356	889.00
357	6823.40
358	805.10
359	4016.75
360	83.75
361	3959.15
362	2878.55
363	945.70
364	1373.05
365	492.55
366	1406.00
367	19.15
368	6962.85
369	8126.65
370	690.25
371	181.50
372	830.80
373	5608.40
374	3646.80
375	3662.25
376	25.35
377	2566.50
378	5308.70
379	1410.25
380	3339.05
381	50.65
382	4732.35
383	90.85
384	5067.45
385	214.75
386	4874.70
387	2348.45
388	4063.00
389	44.00
390	2595.25
391	2309.55
392	89.30
393	367.55
394	3944.50
395	5965.95
396	3694.70
397	2524.45
398	1803.70
399	415.10
400	624.15

401	237.70
402	7007.60
403	3848.80
404	419.40
405	1468.75
406	5812.00
407	2861.45
408	19.90
409	19.60
410	233.70
411	1066.15
412	2149.05
413	4473.00
414	3545.05
415	1195.75
416	6858.90
417	1024.70
418	1845.90
419	75.30
420	132.25
421	515.45
422	2830.45
423	1110.50
424	449.30
425	2838.55
426	5376.40
427	858.60
428	1395.05
429	3975.70
430	1182.55
431	4784.45
432	119.50
433	518.90
434	899.45
435	1183.80
436	720.05
437	8468.20
438	3161.20
439	55.05
440	1882.55
441	5070.40
442	6049.50
443	1166.70
444	2937.65
445	6396.45
446	69.55
447	1270.25
448	759.55

449	7611.55
450	1642.75
451	1545.40
452	3582.40
453	2227.10
454	1417.90
455	2494.65
456	2768.35
457	2369.30
458	38.00
459	75.10
460	100.90
461	1614.05
462	385.90
463	673.25
464	8404.90
465	2799.75
466	6538.45
467	6588.95
468	868.10
469	734.35
470	330.60
471	55.00
472	564.40
473	1315.35
474	74.70
475	1861.50
476	2747.20
477	554.05
478	453.40
479	994.80
480	225.75
481	2145.00
482	1671.60
483	8003.80
484	680.05
485	6130.85
486	1415.00
487	6201.95
488	NaN
489	74.35
490	6597.25
491	114.15
492	139.40
493	3902.60
494	20.40
495	903.60
496	1785.65

497	1397.65
498	131.05
499	1238.45
	...
6543	3425.35
6544	4323.45
6545	703.55
6546	1275.70
6547	2965.75
6548	1647.00
6549	56.25
6550	2249.95
6551	6109.75
6552	159.40
6553	3751.15
6554	68.65
6555	411.25
6556	105.50
6557	3320.60
6558	327.45
6559	5669.50
6560	465.45
6561	704.30
6562	1369.80
6563	1107.25
6564	95.55
6565	6375.20
6566	8152.30
6567	1566.75
6568	130.25
6569	162.15
6570	110.05
6571	1885.15
6572	6302.85
6573	2264.50
6574	816.80
6575	1253.50
6576	41.20
6577	5265.55
6578	693.30
6579	5997.10
6580	3824.20
6581	3886.05
6582	7283.25
6583	412.55
6584	1070.25
6585	817.95
6586	1171.30

6587	6548.65
6588	625.65
6589	1911.50
6590	70.85
6591	134.70
6592	1507.00
6593	2978.30
6594	299.30
6595	5832.65
6596	5567.55
6597	450.80
6598	4166.35
6599	1215.60
6600	91.70
6601	7898.45
6602	3915.40
6603	979.50
6604	90.05
6605	7432.05
6606	4026.40
6607	25.30
6608	1193.05
6609	20.10
6610	398.55
6611	1958.45
6612	69.90
6613	63.15
6614	1301.10
6615	484.05
6616	4528.00
6617	3887.85
6618	2208.75
6619	238.15
6620	80.80
6621	958.15
6622	118.30
6623	76.45
6624	3845.45
6625	1094.50
6626	573.75
6627	1267.00
6628	633.45
6629	6129.65
6630	1218.25
6631	1405.30
6632	2274.90
6633	74.50
6634	1068.85

6635	533.90
6636	676.15
6637	3804.40
6638	1118.80
6639	5236.40
6640	1386.80
6641	762.25
6642	1902.00
6643	239.05
6644	5673.70
6645	39.80
6646	997.75
6647	5574.35
6648	406.05
6649	138.85
6650	123.65
6651	1801.10
6652	689.00
6653	790.70
6654	582.50
6655	1618.20
6656	1173.35
6657	900.90
6658	2122.05
6659	6719.90
6660	69.15
6661	3784.00
6662	1798.65
6663	54.65
6664	3886.45
6665	1224.05
6666	2310.20
6667	723.40
6668	3988.50
6669	3554.60
6670	NaN
6671	6034.85
6672	531.60
6673	85.10
6674	173.00
6675	2511.95
6676	3893.60
6677	357.15
6678	467.50
6679	2288.70
6680	4627.85
6681	289.10
6682	6460.55

6683	1931.30
6684	402.60
6685	2221.55
6686	7758.90
6687	172.85
6688	224.50
6689	7388.45
6690	3460.95
6691	1700.90
6692	3090.65
6693	1293.80
6694	645.80
6695	5224.95
6696	500.10
6697	2427.10
6698	3488.15
6699	1035.70
6700	7565.35
6701	2799.00
6702	1601.50
6703	85.50
6704	6256.20
6705	1232.90
6706	19.90
6707	1937.40
6708	1096.25
6709	5059.75
6710	3023.65
6711	4889.20
6712	2289.90
6713	6503.20
6714	1313.25
6715	990.30
6716	228.00
6717	5746.15
6718	209.10
6719	1864.20
6720	5979.70
6721	3902.45
6722	7142.50
6723	902.00
6724	4481.00
6725	805.20
6726	154.85
6727	528.45
6728	8349.70
6729	4953.25
6730	332.65

6731	470.20
6732	2259.35
6733	1411.35
6734	593.75
6735	6328.70
6736	1411.90
6737	6841.40
6738	20.35
6739	238.50
6740	3233.85
6741	1062.10
6742	4016.30
6743	226.55
6744	7110.75
6745	5440.90
6746	235.10
6747	1958.95
6748	85.00
6749	5528.90
6750	1463.70
6751	1025.05
6752	552.10
6753	3815.40
6754	NaN
6755	3313.40
6756	1938.90
6757	3014.65
6758	460.25
6759	4839.15
6760	184.40
6761	19.90
6762	2010.55
6763	5139.65
6764	69.20
6765	1673.40
6766	309.35
6767	3171.60
6768	8670.10
6769	916.00
6770	299.75
6771	702.05
6772	2354.80
6773	3473.40
6774	19.65
6775	4438.20
6776	4819.75
6777	92.25
6778	1567.00

6779	1242.45
6780	559.20
6781	220.10
6782	531.15
6783	1183.20
6784	465.85
6785	6876.05
6786	501.00
6787	3782.40
6788	460.20
6789	20.20
6790	1790.35
6791	733.35
6792	1334.00
6793	7767.25
6794	876.15
6795	4600.95
6796	113.55
6797	1793.25
6798	886.70
6799	7737.55
6800	1348.90
6801	1686.85
6802	1879.25
6803	4013.80
6804	434.50
6805	7195.35
6806	780.10
6807	107.60
6808	3801.70
6809	308.70
6810	438.25
6811	50.35
6812	3778.10
6813	3147.50
6814	5438.95
6815	5102.35
6816	70.30
6817	1872.20
6818	213.35
6819	5617.75
6820	5386.50
6821	1776.95
6822	2483.05
6823	235.65
6824	5224.35
6825	2272.80
6826	83.75

6827	4663.40
6828	201.70
6829	125.00
6830	684.40
6831	620.35
6832	1146.05
6833	1806.35
6834	603.00
6835	5798.30
6836	519.15
6837	497.60
6838	1301.70
6839	1129.75
6840	19.30
6841	266.95
6842	257.00
6843	865.80
6844	2623.65
6845	45.85
6846	79.55
6847	1082.80
6848	147.80
6849	2570.20
6850	4378.90
6851	3616.25
6852	2924.05
6853	6014.85
6854	32.70
6855	2882.25
6856	1509.90
6857	5305.05
6858	2368.40
6859	7985.90
6860	3545.35
6861	1301.00
6862	372.45
6863	2985.25
6864	77.75
6865	564.35
6866	95.45
6867	1311.75
6868	1135.70
6869	2319.80
6870	3720.35
6871	5025.80
6872	5224.50
6873	6185.80
6874	1498.55

6875	1208.60
6876	6613.65
6877	69.70
6878	573.30
6879	1818.90
6880	1787.35
6881	1051.05
6882	7181.25
6883	3688.60
6884	99.75
6885	871.40
6886	780.50
6887	821.60
6888	239.45
6889	244.45
6890	3357.90
6891	129.60
6892	4977.20
6893	365.35
6894	334.65
6895	2424.05
6896	43.95
6897	4981.15
6898	2090.25
6899	45.10
6900	4905.75
6901	2038.70
6902	4014.00
6903	2441.70
6904	2751.00
6905	1307.80
6906	383.65
6907	2868.05
6908	449.75
6909	53.55
6910	7882.50
6911	1087.70
6912	791.70
6913	7493.05
6914	4414.30
6915	6841.30
6916	819.95
6917	6052.25
6918	3361.05
6919	4869.50
6920	509.30
6921	4308.25
6922	221.10

6923	3833.95
6924	69.35
6925	294.95
6926	4092.85
6927	316.90
6928	2651.20
6929	471.70
6930	216.75
6931	5720.95
6932	503.25
6933	69.60
6934	7365.30
6935	7245.90
6936	385.00
6937	961.40
6938	4615.90
6939	3251.30
6940	3880.05
6941	3088.75
6942	1396.00
6943	30.50
6944	53.05
6945	6859.50
6946	2108.35
6947	6770.50
6948	4730.60
6949	1151.05
6950	232.55
6951	1022.60
6952	5121.30
6953	1127.20
6954	309.40
6955	523.10
6956	4250.10
6957	770.50
6958	246.70
6959	3342.00
6960	3930.60
6961	1747.85
6962	2754.45
6963	897.75
6964	2780.60
6965	5895.45
6966	2208.05
6967	2196.15
6968	1692.60
6969	20.50
6970	265.35

6971	1836.25
6972	6418.90
6973	4871.45
6974	4947.55
6975	1558.65
6976	4284.20
6977	1218.25
6978	5617.95
6979	24.20
6980	679.85
6981	554.45
6982	5237.40
6983	2032.30
6984	789.20
6985	1525.35
6986	2804.45
6987	3726.15
6988	1652.10
6989	1588.75
6990	3366.05
6991	778.10
6992	7113.75
6993	4367.35
6994	993.15
6995	5012.35
6996	2728.60
6997	2093.40
6998	1011.80
6999	106.85
7000	1343.40
7001	130.10
7002	6794.75
7003	1022.50
7004	3691.20
7005	486.20
7006	4036.85
7007	4685.55
7008	256.25
7009	1917.10
7010	74.45
7011	272.15
7012	5150.55
7013	3756.40
7014	3645.75
7015	2874.45
7016	49.95
7017	1020.75
7018	70.65

7019	826.00
7020	239.00
7021	727.80
7022	7544.30
7023	6479.40
7024	3626.35
7025	1679.40
7026	403.35
7027	931.55
7028	4326.25
7029	263.05
7030	39.25
7031	3316.10
7032	75.75
7033	2625.25
7034	6886.25
7035	1495.10
7036	743.30
7037	1419.40
7038	1990.50
7039	7362.90
7040	346.45
7041	306.60
7042	6844.50

Name: TotalCharges, Length: 7043, dtype: float64

```
In [15]: #I then converted the Pandas Series back into the dataframe for the variable total_ch
df['TotalCharges'] = my_series
#Finally I verify the implicit transformation of the strings to floats
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 7043 entries, 0 to 7042
Data columns (total 21 columns):
customerID      7043 non-null object
gender          7043 non-null int64
SeniorCitizen   7043 non-null int64
Partner         7043 non-null int64
Dependents      7043 non-null int64
tenure          7043 non-null int64
PhoneService    7043 non-null int64
MultipleLines    7043 non-null int32
InternetService 7043 non-null object
OnlineSecurity   7043 non-null int32
OnlineBackup     7043 non-null int32
DeviceProtection 7043 non-null int32
TechSupport      7043 non-null int32
StreamingTV      7043 non-null int32
```

```

StreamingMovies      7043 non-null int32
Contract              7043 non-null object
PaperlessBilling      7043 non-null int64
PaymentMethod         7043 non-null object
MonthlyCharges        7043 non-null float64
TotalCharges          7032 non-null float64
Churn                 7043 non-null int64
dtypes: float64(2), int32(7), int64(8), object(4)
memory usage: 963.0+ KB

```

Problem 4: Variable Headers have inconsistent formatting

Solution 4: Reassign variables to new header with columns function

```

In [16]: df.columns = ['customer_id', 'gender', 'senior_citizen', 'partner', 'dependents', 'tenure',
                        'phone_service', 'multiple_lines', 'internet_service', 'online_security',
                        'device_protection', 'tech_support', 'streaming_tv', 'streaming_movies',
                        'paperless_billing', 'payment_method', 'monthly_charges', 'total_charges']

```

```

In [17]: #verify changes are made
         df.info()

```

```

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 7043 entries, 0 to 7042
Data columns (total 21 columns):
customer_id      7043 non-null object
gender           7043 non-null int64
senior_citizen   7043 non-null int64
partner          7043 non-null int64
dependents       7043 non-null int64
tenure           7043 non-null int64
phone_service    7043 non-null int64
multiple_lines   7043 non-null int32
internet_service 7043 non-null object
online_security  7043 non-null int32
online_backup    7043 non-null int32
device_protection 7043 non-null int32
tech_support     7043 non-null int32
streaming_tv     7043 non-null int32
streaming_movies 7043 non-null int32
contract         7043 non-null object
paperless_billing 7043 non-null int64
payment_method   7043 non-null object
monthly_charges  7043 non-null float64
total_charges    7032 non-null float64
churn            7043 non-null int64
dtypes: float64(2), int32(7), int64(8), object(4)

```

memory usage: 963.0+ KB

Problem 5: Payment Method and Internet Services Variables must be uncomplicated to reveal only one piece of information

Solution 5: Split the Payment Method Column and Internet Services Column into two each

```
In [18]: # new data frame with split value columns
new = df["payment_method"].str.split(" ", n = 1, expand = True)

# making separate column for payment types
df["payment_type"] = new[0]

#make a new column from the automatic values
df["automatic_payment"] = new[1]

#drop original column
df.drop(columns = ["payment_method"], inplace = True)

#change the format of the column to 1s for automatic payment and 0s for manual payment
df['automatic_payment'] = df['automatic_payment'].eq('automatic').mul(1)
```

In [19]: df

```
Out[19]:
```

	customer_id	gender	senior_citizen	partner	dependents	tenure	\
0	7590-VHVEG	1	0	1	0	1	
1	5575-GNVDE	0	0	0	0	34	
2	3668-QPYBK	0	0	0	0	2	
3	7795-CFOCW	0	0	0	0	45	
4	9237-HQITU	1	0	0	0	2	
5	9305-CDSKC	1	0	0	0	8	
6	1452-KIOVK	0	0	0	1	22	
7	6713-OKOMC	1	0	0	0	10	
8	7892-POOKP	1	0	1	0	28	
9	6388-TABGU	0	0	0	1	62	
10	9763-GRSKD	0	0	1	1	13	
11	7469-LKBCI	0	0	0	0	16	
12	8091-TTVAX	0	0	1	0	58	
13	0280-XJGEX	0	0	0	0	49	
14	5129-JLPIS	0	0	0	0	25	
15	3655-SNQYZ	1	0	1	1	69	
16	8191-XWSZG	1	0	0	0	52	
17	9959-WOFKT	0	0	0	1	71	
18	4190-MFLUW	1	0	1	1	10	
19	4183-MYFRB	1	0	0	0	21	
20	8779-QRDMV	0	1	0	0	1	
21	1680-VDCWW	0	0	1	0	12	

22	1066-JKSGK	0	0	0	0	1
23	3638-WEABW	1	0	1	0	58
24	6322-HRPFA	0	0	1	1	49
25	6865-JZNKO	1	0	0	0	30
26	6467-CHFZW	0	0	1	1	47
27	8665-UTDHZ	0	0	1	1	1
28	5248-YGIJN	0	0	1	0	72
29	8773-HHUOZ	1	0	0	1	17
30	3841-NFECX	1	1	1	0	71
31	4929-XIHVW	0	1	1	0	2
32	6827-IEAUQ	1	0	1	1	27
33	7310-EGVHZ	0	0	0	0	1
34	3413-BMNZE	0	1	0	0	1
35	6234-RAAPL	1	0	1	1	72
36	6047-YHPVI	0	0	0	0	5
37	6572-ADKRS	1	0	0	0	46
38	5380-WJKOV	0	0	0	0	34
39	8168-UQWWF	1	0	0	0	11
40	8865-TNMNX	0	0	1	1	10
41	9489-DEDVP	1	0	1	1	70
42	9867-JCZSP	1	0	1	1	17
43	4671-VJLCL	1	0	0	0	63
44	4080-IIARD	1	0	1	0	13
45	3714-NTNFO	1	0	0	0	49
46	5948-UJZLF	0	0	0	0	2
47	7760-OYPDY	1	0	0	0	2
48	7639-LIAYI	0	0	0	0	52
49	2954-PIBKO	1	0	1	1	69
50	8012-SOUDQ	1	1	0	0	43
51	9420-LOJKX	1	0	0	0	15
52	6575-SUVOI	1	1	1	0	25
53	7495-0OKFY	1	1	1	0	8
54	4667-QONEA	1	1	1	1	60
55	1658-BYGOY	0	1	0	0	18
56	8769-KKTPH	1	0	1	1	63
57	5067-XJQFU	0	1	1	1	66
58	3957-SQXML	1	0	1	1	34
59	5954-BDFSG	1	0	0	0	72
60	0434-CSFON	1	0	1	0	47
61	1215-FIGMP	0	0	0	0	60
62	0526-SXDJP	0	0	1	0	72
63	0557-ASKVU	1	0	1	1	18
64	5698-BQJOH	1	0	0	0	9
65	5122-CYFXA	1	0	0	0	3
66	8627-ZYGSZ	0	0	1	0	47
67	3410-YOQBQ	1	0	0	0	31
68	3170-NMYVV	1	0	1	1	50
69	7410-OIEDU	0	0	0	0	10

70	2273-QCKXA	0	0	0	0	1
71	0731-EBJQB	1	0	1	1	52
72	1891-QRQSA	0	1	1	1	64
73	8028-PNXHQ	0	0	1	1	62
74	5630-AHZIL	1	0	0	1	3
75	2673-CXQEU	1	1	0	0	56
76	6416-JNVRK	1	0	0	0	46
77	5590-ZSKRV	1	0	1	1	8
78	0191-ZHSKZ	0	1	0	0	30
79	3887-PBQAO	1	0	1	1	45
80	5919-TMRGD	1	0	0	1	1
81	8108-UXRQN	1	0	1	1	11
82	9191-MYQKX	1	0	1	0	7
83	9919-YLNNG	1	0	0	0	42
84	0318-ZOPWS	1	0	1	0	49
85	4445-ZJNMU	0	0	0	0	9
86	4808-YNLEU	1	0	1	0	35
87	1862-QRWPE	1	0	1	1	48
88	2796-NUFI	1	0	1	1	46
89	3016-KSVCP	0	0	1	0	29
90	4767-HZZHQ	0	0	1	1	30
91	2424-WVHPL	0	1	0	0	1
92	7233-PAHHL	0	0	1	1	66
93	6067-NGCEU	1	0	0	0	65
94	9848-JQJTX	0	0	0	0	72
95	8637-XJIVR	1	0	0	0	12
96	9803-FTJCG	0	0	1	1	71
97	0278-YXOOG	0	0	0	0	5
98	3212-KXOCR	0	0	0	0	52
99	4598-XLKNJ	1	1	1	0	25
100	6380-ARCEH	0	0	0	0	1
101	3679-XASPY	1	0	1	1	1
102	7123-WQUHX	0	0	0	0	38
103	5386-THSLQ	1	1	1	0	66
104	3192-NQECA	0	0	1	0	68
105	6180-YBIQI	0	0	0	0	5
106	6728-DKUCO	1	0	1	1	72
107	9750-BOOHV	1	0	0	0	32
108	8597-CWYHH	0	0	0	0	43
109	2848-YXSMW	0	0	1	1	72
110	0486-HECZI	0	0	1	0	55
111	4549-ZDQYY	1	0	0	0	52
112	5712-AHQNN	1	0	0	0	43
113	4846-WHAFZ	1	1	1	0	37
114	5256-SKJGO	1	0	1	1	64
115	3071-VBYPO	0	0	1	1	3
116	9560-BBZXK	1	0	0	0	36
117	5299-RULOA	1	0	1	1	10

118	8402-000HJ	1	0	0	0	41
119	9445-ZUEQE	0	0	1	1	27
120	1091-SOZGA	1	0	1	1	56
121	2928-HLDBA	1	0	0	0	6
122	0404-SWRVG	0	0	0	0	3
123	6497-TILVL	1	0	1	1	7
124	7219-TLZHO	1	0	1	1	4
125	4622-YNKIJ	0	0	0	0	33
126	4412-YLTKF	1	1	0	0	27
127	6734-PSBAW	0	0	1	0	72
128	3930-ZGWVE	0	0	0	0	1
129	2639-UGMAZ	0	1	0	0	71
130	2876-GZYZC	1	0	0	0	13
131	6207-WIOLX	1	0	1	1	25
132	8587-XYZSF	0	0	0	0	67
133	3091-FYHKI	0	0	0	0	1
134	2372-HWUHI	0	0	0	0	2
135	7799-LGRDP	1	0	0	0	43
136	7850-VWJUJ	1	0	0	0	23
137	3774-VBNXY	1	0	1	1	64
138	6217-KDYWC	0	0	0	1	57
139	0390-DCFDQ	1	1	1	0	1
140	3146-MSEGF	1	1	1	1	72
141	4080-OGPJL	1	0	0	0	8
142	1095-WGNGG	1	0	1	0	61
143	2636-SJDOU	0	0	0	0	64
144	1131-QQZEB	0	1	1	0	71
145	5716-EZXZN	1	0	1	1	65
146	6837-BJYDQ	0	0	0	0	3
147	2135-RXIHG	0	0	0	0	1
148	6440-DKQGE	0	0	0	1	30
149	3466-BYAVD	0	0	1	1	15
150	3780-YVMFA	1	0	1	1	8
151	3874-EQOEP	0	0	0	0	7
152	1679-JRFBR	1	0	1	1	70
153	9073-ZZIAJ	0	0	1	1	62
154	3077-RSNTJ	1	0	1	1	6
155	6551-GNYDG	1	0	1	1	14
156	9167-APMXZ	1	0	0	0	22
157	2749-CTKAJ	0	0	1	1	22
158	6371-NZYEG	0	0	1	1	16
159	7554-NEWDD	0	0	0	0	10
160	8992-VONJD	1	0	0	1	13
161	0867-MKZVY	1	0	1	0	20
162	4482-EWFMI	1	0	0	0	2
163	4648-YPBTM	0	0	0	0	53
164	2907-ILJBN	1	0	1	1	11
165	6345-FZOQH	0	0	1	0	69

166	3376-BMGFE	1	0	0	0	4
167	5997-OPVFA	0	0	1	0	72
168	3445-HXXGF	0	1	1	0	58
169	1159-WFSGR	1	0	1	1	16
170	7654-YWJUF	0	0	1	0	43
171	1875-QIVME	1	0	1	0	2
172	6727-IOTLZ	0	0	1	0	14
173	0691-JVSYA	1	0	1	0	53
174	5918-VUKWP	1	0	0	0	32
175	1744-JHKYS	1	0	1	0	34
176	2656-FMOKZ	1	1	0	0	15
177	2070-FNEXE	1	1	0	0	7
178	5947-SGKCL	1	0	1	1	15
179	3712-PKXZA	0	0	1	0	61
180	6317-YPKDH	1	0	0	0	1
181	6582-OIVSP	1	0	0	0	1
182	9367-WXLCH	0	0	0	0	8
183	5524-KHNJP	0	0	1	1	33
184	1918-ZBFQJ	1	0	0	0	13
185	1024-GUALD	1	0	1	0	1
186	4827-USJHP	0	0	0	0	20
187	8167-GJLRN	0	0	0	0	3
188	0956-SYCWG	1	0	0	0	13
189	8017-UVSZU	1	0	1	0	40
190	7100-FQPRV	0	0	1	1	43
191	2472-OVKUP	0	0	1	0	6
192	2984-RGEYA	1	0	1	1	69
193	9680-NIAUV	1	0	1	1	72
194	2146-EGVDT	0	0	1	1	59
195	2604-IJPDU	1	0	1	0	20
196	9178-JHUVJ	0	0	1	1	24
197	6168-YBYNP	0	0	0	0	59
198	7255-SSFBC	0	0	1	1	72
199	3645-DEYGF	0	0	0	1	1
200	9323-HGFWY	1	0	1	0	27
201	8544-GOQSH	1	0	0	0	14
202	3363-DTIVD	0	0	1	1	71
203	7018-WBJNK	0	0	0	1	13
204	9142-KZXOP	0	0	0	0	44
205	7674-YTAFD	1	0	0	0	33
206	6348-SNFUS	0	0	1	1	72
207	1285-OKIPP	0	0	0	0	1
208	7825-ECJRF	1	0	0	0	19
209	1347-KTTTA	0	0	1	0	64
210	7841-TZDMQ	0	0	0	0	2
211	4195-NZGTA	1	0	0	0	1
212	7157-SMCFK	0	0	0	1	61
213	4709-LKHYG	1	0	1	1	29

214	2504-DSHIH	0	1	1	0	23
215	0699-NDKJM	1	0	1	0	57
216	9286-BHDQG	0	0	1	1	72
217	0230-WEQUW	0	0	1	0	66
218	2040-LDIWQ	0	0	1	1	65
219	6496-JDSSB	1	0	0	0	8
220	9408-SSNVZ	1	0	0	0	4
221	4443-EMBNA	1	0	1	0	71
222	6469-MRVET	0	0	1	1	1
223	0742-MOABM	0	0	1	0	4
224	5961-VUSRV	1	0	0	0	12
225	6778-JFCMK	0	0	0	0	24
226	6341-JVQGF	1	0	1	1	31
227	2232-DMLXU	1	0	1	0	1
228	4811-JBUVU	0	0	0	0	30
229	0945-TSONX	1	0	1	1	47
230	2651-ZCBXV	0	0	0	0	54
231	3316-UWXUY	0	0	0	0	50
232	8937-RDTHP	0	0	0	0	1
233	7083-MIOPC	1	0	0	0	72
234	1984-GPTEH	1	0	0	0	29
235	1251-KRREG	0	0	0	0	2
236	0621-JFHOL	1	0	0	0	10
237	9903-LYSAB	0	0	1	0	18
238	0094-OIFMO	1	1	0	0	11
239	9227-UAQFT	0	0	0	0	16
240	7301-ABVAD	1	0	0	0	72
241	6614-FHDBO	0	0	0	0	72
242	7576-ASEJU	1	0	1	1	41
243	9058-HRZSV	1	1	1	0	65
244	4522-AKYLR	1	1	0	0	13
245	0221-WMXNQ	0	1	0	0	4
246	0303-UNCIP	0	0	0	0	41
247	9947-OTFQU	0	1	0	0	15
248	0322-YINQP	0	0	0	0	1
249	0959-WHOKV	0	0	0	0	42
250	4075-JFPGR	1	0	1	0	51
251	4629-NRXXK	1	0	1	1	2
252	9514-JDSKI	0	1	1	0	1
253	3282-ZISZV	0	0	0	1	32
254	3675-YDUPJ	0	0	0	0	10
255	4111-BNXIF	1	0	1	1	67
256	7017-VFHAY	1	0	1	1	61
257	6655-LHBYW	0	0	0	0	50
258	4959-JOSRX	1	0	1	0	2
259	5046-NUHWD	1	1	1	0	29
260	7273-TEFQD	0	1	0	0	3
261	3606-TWKGI	0	1	0	0	13

262	7529-ZDFXI	0	1	1	0	57
263	7605-BDWDC	1	0	0	0	31
264	1950-KSVVJ	1	0	1	0	45
265	0123-CRBRT	1	0	1	1	61
266	6292-TOSSS	0	0	0	0	50
267	3197-ARFOY	1	1	0	0	19
268	6323-AYBRX	0	0	0	0	59
269	7014-ZZXAW	1	0	1	0	71
270	4385-GZQXV	1	1	0	0	16
271	7633-MVPUY	0	0	1	0	57
272	6366-ZGQGL	0	0	0	0	1
273	4716-HHKQH	0	1	1	0	20
274	5940-AHUHD	0	0	0	0	1
275	6432-TWQLB	0	0	1	0	5
276	4484-GLZOU	1	0	1	0	52
277	3179-GBRWV	0	1	1	0	21
278	8645-KWHJO	0	0	0	0	14
279	4130-MZLCC	1	0	0	0	5
280	0314-TKOSI	1	0	0	0	6
281	8229-MYEJZ	1	0	0	0	10
282	2080-SRCDE	1	0	0	1	1
283	9577-WJVCQ	1	0	0	0	68
284	9512-UIBFX	0	0	1	1	18
285	6202-DYYFX	1	0	0	0	22
286	3808-HFKDE	1	0	0	0	20
287	5583-SXDAG	0	0	1	0	1
288	3488-PGMQJ	0	1	0	0	8
289	3580-REOAC	0	0	0	0	10
290	7534-BFESC	0	1	0	0	24
291	3727-OWVYD	0	0	0	0	35
292	2294-SALNE	0	0	1	1	23
293	4847-TAJYI	1	1	0	0	6
294	1563-IWQEX	1	0	0	0	12
295	8203-XJZRC	0	0	0	0	1
296	6556-DBKZF	1	0	1	1	71
297	6851-WEFYX	0	1	1	0	35
298	2985-JUUBZ	0	0	1	1	40
299	6390-DSAZX	1	0	0	1	1
300	0895-LMRSF	0	0	0	0	23
301	8098-LLAZX	1	1	0	0	4
302	8266-VBFQL	0	0	0	0	4
303	8181-YHCMF	1	0	1	1	68
304	2240-HSJQD	0	0	0	1	38
305	1248-DYXUB	0	0	1	1	52
306	0265-EDXBD	0	1	1	0	32
307	4115-BNPJY	0	0	1	1	29
308	3167-SNQPL	0	1	1	1	38
309	4091-TVOCN	0	0	0	1	48

310	1098-TDVUQ	1	0	0	0	1
311	7277-OZCGZ	1	0	0	0	22
312	1557-EMYVT	1	0	0	0	43
313	2799-ARNLO	1	1	1	0	5
314	7563-BIUPC	0	0	0	0	5
315	5027-YOCXN	0	0	1	1	51
316	3973-SKMLN	0	0	0	0	71
317	2321-OMBXY	1	0	1	1	38
318	2840-XANRC	0	1	1	0	24
319	6745-JEFZB	0	0	1	0	35
320	5020-ZSTTY	1	1	0	0	54
321	9880-TDQAC	1	0	1	1	72
322	8705-WZCYL	0	0	0	0	1
323	7102-JJVTX	1	0	1	1	9
324	8626-PTQGE	0	0	0	0	69
325	4983-CLMLV	1	0	1	0	52
326	5701-YVSVF	1	1	1	0	11
327	5804-LEPIM	1	1	0	0	2
328	5697-GOMBF	1	1	1	1	28
329	2739-CACDQ	1	1	0	0	17
330	9385-EHGDO	1	0	1	1	35
331	9498-FIMXL	1	0	0	0	8
332	2379-GYFLQ	0	0	0	0	46
333	0122-OAHPZ	1	0	0	0	7
334	2868-SNELZ	1	0	0	0	2
335	4322-RCYMT	0	0	1	1	68
336	6680-NENYN	1	0	0	0	43
337	2088-IEBAU	1	0	0	0	68
338	7982-VCELR	1	0	0	0	36
339	1343-EHPYB	0	0	1	0	63
340	6035-BXTTY	1	1	0	0	32
341	6885-PKOAM	1	0	1	0	71
342	7520-HQWJU	1	0	1	1	66
343	9639-BUJXT	0	0	0	0	63
344	5924-SNGKP	1	0	0	1	41
345	0021-IKXGC	1	1	0	0	1
346	2034-GDRCN	1	0	0	0	2
347	8966-SNIZF	1	0	1	0	70
348	6243-OZGFH	1	0	0	0	23
349	4654-DLAMQ	1	1	1	0	64
350	0513-RBGPE	0	0	1	1	37
351	5160-UXJED	0	0	0	1	17
352	4115-NZRKS	1	1	0	0	7
353	0219-YTZUE	0	0	1	1	4
354	0623-IIHUG	1	1	0	0	21
355	4572-DVCGN	1	0	0	0	10
356	3351-NGXYI	1	1	0	0	16
357	8984-EYLLL	0	0	1	0	64

358	9057-MSWCO	0	1	1	0	27
359	9833-TGFHX	0	0	1	1	42
360	9294-TDIPC	0	0	0	1	5
361	5229-DTFYB	1	0	0	0	41
362	0104-PPXDV	0	0	1	0	58
363	5176-LMJXE	1	0	0	0	47
364	3583-KRKMD	0	0	0	0	18
365	1010-DIAUQ	0	0	0	0	5
366	9069-LGEUL	0	0	1	0	23
367	7302-ZHMHP	1	0	0	0	1
368	9571-EDEBV	0	0	1	0	71
369	3520-FJGCV	0	0	1	1	72
370	6563-VRERX	0	0	1	1	33
371	0259-GBZSH	0	0	0	0	2
372	6122-EFVKN	0	0	0	1	24
373	2805-EDJPQ	1	0	1	1	56
374	6862-CQUMB	0	0	0	0	37
375	7156-MXBJE	1	0	0	0	43
376	6158-HDPXZ	0	0	0	0	1
377	9601-BRXPO	1	0	1	0	25
378	2863-IMQDR	1	0	0	0	61
379	5686-CMAWK	0	0	0	0	17
380	5651-CRHKQ	1	0	1	0	41
381	6905-NIQIN	0	0	0	0	1
382	8204-YJCLA	0	1	1	1	72
383	5167-ZFFMM	0	0	0	0	1
384	6583-SZVGP	0	0	0	0	48
385	4895-TMWIR	0	1	1	0	11
386	0533-BNWKF	1	1	1	0	55
387	1708-PBBOA	1	0	0	0	42
388	8782-LKFPK	0	0	0	0	44
389	5522-JBWMO	0	0	0	1	1
390	3597-MVHJT	1	0	0	0	27
391	9774-NRNAU	0	1	1	0	27
392	0224-RLWWD	1	1	0	0	2
393	9967-ATRFS	1	0	0	0	19
394	3951-NJCVI	1	1	1	0	42
395	2977-CEBSX	1	0	0	0	66
396	0177-PXBAT	0	1	1	0	33
397	6599-CEBNN	1	0	0	0	34
398	2519-ERQOJ	0	1	0	0	33
399	5876-QMYLD	1	0	1	1	23
400	2277-AXSDC	1	0	0	0	32
401	9442-JTWDL	1	0	0	0	11
402	0979-PHULV	0	0	1	1	69
403	3067-SVMTC	1	0	1	0	68
404	5495-GPSRW	0	0	0	0	20
405	7606-BPHHN	0	0	0	0	72

406	4742-DRORA	0	0	1	1	60
407	0111-KLBQG	0	1	1	1	32
408	4800-VHZKI	1	0	0	0	1
409	7989-CHGTL	0	0	0	0	1
410	0334-GDDSO	0	1	0	0	3
411	4163-NCJAK	1	0	1	0	46
412	5233-AOZUF	1	0	1	0	29
413	5973-EJGDP	0	0	0	0	51
414	1996-DBMUS	1	1	1	0	48
415	7916-VCCPB	1	0	1	1	16
416	4686-GEFRM	0	0	1	0	70
417	5249-QYHEX	1	0	1	1	40
418	0578-SKVMF	1	0	1	1	22
419	5564-NEMQO	1	1	0	0	1
420	2233-FAGXV	1	0	1	1	5
421	5605-IYGFG	1	0	0	0	7
422	7663-ZTEGJ	0	0	0	1	29
423	3935-TBRZZ	0	0	1	1	44
424	8111-BKVDS	1	0	0	0	10
425	2055-SIFSS	1	1	1	0	55
426	2806-MLNTI	0	1	1	0	52
427	8734-DKSTZ	1	0	1	1	10
428	4360-PNRQB	0	0	0	0	18
429	6152-ONASV	1	0	1	0	68
430	9063-ZGTUY	1	0	1	1	61
431	7781-HVGMK	1	0	1	1	72
432	2181-UAESM	0	0	0	0	2
433	2957-LOLHO	0	0	0	0	12
434	6048-NJXHX	0	0	1	0	41
435	2320-SLKMB	1	0	0	0	26
436	4980-URKXC	0	0	1	0	36
437	4376-KFVRS	0	0	1	1	72
438	5886-VLQVU	0	0	1	0	35
439	3577-AMVUX	0	0	0	0	1
440	0771-WLCLA	1	0	1	1	16
441	5628-RKIFK	1	1	0	0	49
442	0206-TBWLC	1	0	1	0	54
443	2937-FTHUR	1	0	0	1	18
444	1910-FMXJM	1	0	1	0	36
445	7752-XUSCI	1	0	0	0	60
446	4110-PFEUZ	1	0	0	0	1
447	0732-OCQOC	1	0	1	1	52
448	5168-MSWXT	0	0	1	1	8
449	1090-ESELR	0	0	1	1	72
450	8592-PLTMQ	1	0	0	0	64
451	5760-WRAHC	1	1	0	0	22
452	8847-GEOOQ	0	0	1	0	60
453	0256-LTHVJ	1	0	1	1	28

454	4785-FCIFB	1	0	1	0	61
455	8313-ND0IA	1	0	0	0	24
456	5149-CUZUJ	0	0	1	1	28
457	0942-KOWSM	1	0	1	1	30
458	4237-CLSM	0	0	1	0	2
459	1452-VOQCH	0	0	0	0	1
460	4719-UMSIY	0	0	0	1	6
461	6614-VBEGU	1	0	1	0	24
462	0880-TKATG	0	0	1	1	4
463	3811-VBYBZ	0	0	0	0	7
464	1480-BKXGA	0	1	1	0	72
465	2996-XAUVF	0	0	0	0	70
466	9076-AXYIK	0	1	1	0	64
467	5968-XQIVE	0	0	1	1	72
468	8896-RAZCR	1	0	0	1	44
469	4640-UHDOS	1	0	1	1	13
470	4933-IKULF	1	1	0	0	17
471	3583-EKAPL	0	0	0	0	1
472	1304-BCCFO	0	0	1	0	9
473	4104-PVRPS	0	0	1	0	24
474	9399-APLBT	1	0	1	1	1
475	2359-KMGLI	0	0	0	0	24
476	3780-DDGSE	0	1	1	1	35
477	4431-EDMIQ	1	0	1	1	7
478	0306-JAELE	0	0	0	0	5
479	6227-HWPWX	1	0	0	1	15
480	0486-LGCCCH	0	0	1	1	11
481	0447-BEMNG	1	0	1	0	48
482	4612-SSVHJ	1	1	0	0	20
483	5168-MQQCA	1	0	1	0	72
484	5949-XIKAE	1	0	1	1	8
485	7971-HLVXI	0	0	1	1	72
486	9094-AZPHK	1	0	0	0	15
487	3649-JPUGY	0	0	0	0	72
488	4472-LVYGI	1	0	1	1	0
489	8372-JUXUI	0	0	0	1	1
490	3552-CTCYF	0	0	1	1	63
491	6778-YSNIH	1	0	0	0	2
492	0388-EOPEX	1	0	1	0	2
493	5756-OZRIO	0	1	1	0	61
494	6579-JPICP	0	0	0	0	1
495	8205-OTCHB	0	0	0	0	22
496	4134-BSXLX	0	0	1	0	28
497	0505-SPOOW	1	0	1	0	70
498	6235-VDHOM	1	1	0	0	5
499	7783-YKGDV	1	0	0	0	12
...
6543	8050-XGRVL	1	0	1	1	62

6544	6661-HBGWL	1	1	0	0	42
6545	1518-VOWAV	1	0	0	0	9
6546	9828-QHFBK	0	0	0	0	24
6547	3908-MKIMJ	0	1	1	0	68
6548	5012-YSPJJ	0	0	1	1	31
6549	5909-ECHUI	1	0	0	0	1
6550	1309-BXVOQ	0	0	1	0	21
6551	6728-VOIFY	1	0	1	0	63
6552	9317-WZPGV	1	1	0	0	2
6553	4891-NLUBA	1	0	1	1	61
6554	2856-HYAPG	1	0	0	0	1
6555	8969-PRHFK	0	0	0	0	18
6556	0661-KQHNK	1	0	1	1	6
6557	8709-KRDVL	1	0	0	0	33
6558	4488-PSYCG	0	0	0	0	16
6559	1427-VERSM	1	0	1	0	56
6560	9801-NOSHQ	0	0	0	1	23
6561	6339-YPSAH	0	0	0	0	9
6562	3621-CEOVK	1	1	1	0	14
6563	6906-ANDWJ	0	0	1	1	15
6564	2159-TURXX	0	0	0	0	5
6565	1548-FEHLV	0	0	1	0	61
6566	3795-CAWEX	0	0	1	1	70
6567	6215-NQCPY	0	0	0	0	15
6568	5647-URDKA	0	0	1	1	8
6569	2229-DPMBI	1	0	1	1	8
6570	9626-WEQRM	1	0	0	0	4
6571	2188-SXWVT	1	0	0	0	34
6572	6258-PVZWJ	0	0	1	0	68
6573	1094-BKOSX	1	0	1	1	45
6574	6969-MVBAL	1	1	0	0	9
6575	2978-XXSOG	1	0	0	0	22
6576	2342-CKIAO	1	0	0	0	2
6577	6953-PBDIN	0	0	1	0	70
6578	3898-BSJYF	1	0	0	1	10
6579	3938-YFPXD	0	0	0	0	72
6580	7696-AMHOD	1	0	1	1	49
6581	2453-SAFNS	1	1	0	0	54
6582	9558-IHEZX	1	0	0	0	71
6583	9617-UDPEU	1	0	0	0	22
6584	6340-DACFT	1	0	1	1	50
6585	4955-VCWBI	1	0	1	1	43
6586	6813-GZQCG	1	0	1	1	45
6587	7426-GSWPO	0	1	0	0	64
6588	3389-KTRXV	1	0	1	1	23
6589	3118-UHVVQ	1	0	1	0	68
6590	1031-IIDEO	1	0	0	0	1
6591	5832-XKAES	0	0	0	0	2

6592	3205-MXZRA	0	0	0	0	26
6593	4701-AHWMW	0	0	1	0	55
6594	8317-BVKSO	0	0	0	0	14
6595	5702-KVQRD	0	0	1	0	71
6596	0083-PIVIK	0	0	0	0	64
6597	9210-IAHGH	1	0	0	0	7
6598	6169-PGNCD	1	0	0	0	57
6599	0023-XUOPT	1	0	1	0	13
6600	4592-IWTJI	1	0	1	1	3
6601	4909-JOUPP	0	1	1	0	72
6602	4657-FWVFY	1	0	1	1	40
6603	2257-BOVXD	0	0	1	0	14
6604	7729-JTEEC	0	0	1	1	2
6605	7632-MNYOY	0	1	0	0	66
6606	6518-LGAOV	1	0	1	0	38
6607	7242-QZLXF	0	0	0	1	1
6608	4576-CSAJH	0	0	0	0	22
6609	1000-AJSLD	0	0	0	0	1
6610	9696-RMYBA	0	0	0	0	5
6611	8690-UPCZI	0	0	1	1	29
6612	1062-LHZOD	0	0	1	1	1
6613	9770-LXDBK	1	0	0	0	3
6614	4086-WITJG	0	0	1	1	71
6615	8344-WFMFH	0	0	0	1	9
6616	9600-NAXZN	0	0	0	0	43
6617	8822-KNBHV	1	0	0	0	48
6618	8404-FYDIB	0	0	0	0	26
6619	2791-SFVEW	1	0	0	0	9
6620	6457-USBER	0	0	0	0	1
6621	6762-NSODU	1	0	1	1	46
6622	4662-EKDPQ	0	0	0	0	2
6623	9248-OJYKK	0	1	0	0	1
6624	9888-ZCUMM	0	0	1	1	64
6625	3398-FSHON	1	1	0	0	12
6626	3319-DWOEP	0	1	1	0	6
6627	1074-WVEVG	1	0	1	0	59
6628	9979-RGMZT	1	0	0	0	7
6629	6437-UDQJM	1	1	1	0	72
6630	1226-IENZN	0	1	0	0	16
6631	2108-GLPQB	0	0	1	0	25
6632	9259-PACGQ	1	0	1	0	34
6633	4415-IJZTP	1	0	0	0	1
6634	1465-VINDH	1	0	1	1	10
6635	5474-LAMUQ	0	0	1	0	24
6636	3468-DRVQJ	1	0	1	1	10
6637	1122-YJBCS	0	0	1	0	69
6638	4990-ALDGW	0	0	0	0	57
6639	4816-OKWNX	0	0	1	1	50

6640	3315-IKYZQ	0	0	1	1	28
6641	2810-FTLEM	1	0	0	0	16
6642	4747-LCAQL	0	0	0	0	25
6643	3411-WLRSQ	1	1	1	0	3
6644	0898-XCGTF	0	0	1	0	61
6645	8006-PYCSW	1	0	0	0	2
6646	8249-THVEC	0	0	1	1	51
6647	8722-PRFDV	1	0	1	1	71
6648	2164-SOQXL	1	0	1	1	20
6649	4020-KIUDI	0	0	1	1	6
6650	5850-BDWCY	1	0	0	0	6
6651	2038-YSEZE	1	0	0	0	29
6652	0827-ITJPH	0	0	0	0	36
6653	8799-OXZMD	1	0	0	0	28
6654	1925-TIBLE	1	0	1	0	7
6655	1705-GUHPV	1	0	0	0	63
6656	4779-ZGICK	0	0	1	1	48
6657	0048-PIHNL	1	0	1	0	49
6658	0818-OCPZO	0	1	0	0	27
6659	3967-KXAPS	0	0	1	0	72
6660	1447-GIQMR	0	0	1	0	1
6661	3704-IEAXF	1	0	1	1	72
6662	6810-VCAEX	1	0	0	0	47
6663	0674-EYYZV	1	0	0	0	1
6664	4480-MBMLB	1	0	0	0	36
6665	1395-OFUWC	0	0	1	1	43
6666	0822-QGCXA	1	1	1	0	27
6667	0872-NXJYS	1	0	0	0	9
6668	2832-KJCRD	1	0	0	0	38
6669	3588-WSTTJ	1	1	0	0	35
6670	4075-WKNIU	1	0	1	1	0
6671	5090-EMGTC	1	0	1	0	59
6672	2346-CZYIL	0	0	0	0	27
6673	3798-EPWRR	1	1	0	0	2
6674	6258-NGCNG	0	0	0	0	7
6675	4186-ZBUEW	1	0	0	0	36
6676	5274-XHAKY	1	0	1	1	41
6677	1442-BQPVU	1	0	0	0	13
6678	3978-YNKDD	0	0	0	1	19
6679	4940-KHCWD	1	0	1	0	60
6680	9412-ARGBX	1	0	0	1	48
6681	1389-CXMLU	0	1	0	0	3
6682	9589-ABEPT	0	0	1	0	69
6683	9388-ZEYVT	0	0	0	0	43
6684	0305-SQECB	1	0	0	1	11
6685	7605-SNLQG	1	0	1	0	45
6686	4670-TABXH	0	0	1	0	72
6687	5561-NWEVX	1	1	1	0	2

6688	0064-SUDOG	1	0	1	1	12
6689	8561-NMTBD	1	0	1	1	67
6690	5161-XEUVX	0	0	1	0	37
6691	8292-FRFZQ	1	0	0	0	39
6692	8591-NXRCV	1	0	0	0	41
6693	7895-VONWT	1	0	0	0	25
6694	4526-RMTLL	0	0	1	1	8
6695	6253-GNHHW	1	0	1	1	71
6696	4566-NECEV	0	0	0	0	5
6697	8080-POTJR	1	0	0	0	30
6698	6906-MPARY	0	0	0	0	40
6699	3662-FXJFO	1	0	0	0	54
6700	8107-RZLNV	0	0	1	0	72
6701	0516-OOHAR	0	0	1	1	28
6702	2027-CWDNU	0	0	1	1	18
6703	2737-WFVYW	1	0	0	0	2
6704	9912-OMZDS	1	0	1	1	59
6705	3733-ZEECP	0	0	1	1	22
6706	7878-RTCZG	1	0	0	0	1
6707	2452-MRMZF	1	1	1	0	72
6708	2272-QAGFO	1	1	0	0	14
6709	7103-IPXPJ	0	0	1	0	50
6710	4342-HFXWS	1	0	1	1	48
6711	3545-CNWRG	1	0	1	1	49
6712	1785-BPHTP	0	0	1	1	28
6713	4989-LIXVT	0	1	0	0	68
6714	7315-WYOAW	0	0	0	0	13
6715	1173-XZPYF	1	0	0	0	11
6716	9850-OWRHQ	1	0	1	0	3
6717	3768-NLUBH	0	1	1	0	57
6718	8676-TRMJS	0	0	0	0	3
6719	2509-TFPJU	0	0	1	0	72
6720	9530-GRMJG	0	0	1	1	70
6721	6898-RBTLU	1	0	1	1	49
6722	5481-NTDOH	1	1	1	0	67
6723	2068-WWXQZ	0	0	0	0	46
6724	7359-SSBJK	1	1	0	0	64
6725	2061-VVFST	1	0	1	0	37
6726	0685-MLYYM	1	1	0	0	2
6727	0749-IRGQE	1	1	1	0	13
6728	2380-DAMQP	1	0	1	0	72
6729	2256-YLYLP	0	0	1	1	68
6730	1272-ILHFG	0	0	1	1	15
6731	0164-XAIRP	1	0	0	0	24
6732	5666-CYCYZ	1	0	0	0	24
6733	4011-ARPHK	0	0	0	0	27
6734	8182-PNAGI	0	0	0	0	12
6735	6365-HITVU	1	0	1	1	71

6736	7558-IMLMT	0	0	1	1	67
6737	9488-FYQAU	1	0	1	0	63
6738	3590-TCXTB	0	0	0	0	1
6739	6994-KERXL	0	0	0	0	4
6740	7957-RYHQD	1	1	0	0	40
6741	2180-DXNEG	1	0	0	0	12
6742	1960-UOTYM	0	0	1	1	52
6743	2740-JFBOK	0	0	0	0	10
6744	6500-JVEGC	0	0	0	0	68
6745	5515-AKOAJ	1	0	0	0	54
6746	8976-OQHGT	1	0	1	1	4
6747	5245-VDBUR	1	0	1	0	52
6748	6230-BSUXY	1	1	0	0	1
6749	8469-SNFFH	0	0	1	0	70
6750	2144-ESWKO	0	0	0	0	43
6751	1241-FPMOF	0	0	0	0	52
6752	9928-BZVLZ	1	0	0	0	12
6753	4114-QMKVN	1	0	1	1	56
6754	2775-SEFEE	0	0	0	1	0
6755	9003-CPATH	0	0	0	0	42
6756	1754-GKYPY	0	1	1	0	22
6757	5294-CDGWY	0	0	1	1	51
6758	7956-XQWGU	0	0	0	0	27
6759	1591-MQJTP	0	1	1	0	51
6760	5295-PCJ00	0	0	0	1	4
6761	2369-FEVNO	0	0	0	0	1
6762	9863-JZAIC	0	0	0	0	35
6763	7471-MQPOS	0	1	1	1	71
6764	7660-HDPJV	1	0	0	0	1
6765	5115-SQAAU	1	0	1	1	69
6766	9845-QOMAD	0	0	1	1	14
6767	7672-VFMXZ	0	0	1	0	57
6768	9739-JLPQJ	1	0	1	1	72
6769	9916-AYHTC	0	0	0	0	48
6770	3855-ONCAR	1	0	1	1	4
6771	1488-SYSFC	0	0	1	1	31
6772	7931-PXHFC	0	0	0	0	38
6773	3990-QYKBE	0	1	1	0	37
6774	0970-QXPXW	1	0	0	0	1
6775	3259-KNMRR	0	1	0	0	57
6776	6120-RJKLU	1	1	1	0	62
6777	9572-WUKSB	0	0	1	0	3
6778	5893-KCLGT	1	0	0	1	72
6779	0076-LVEPS	0	0	0	1	29
6780	3640-JQGJG	0	0	1	1	13
6781	4919-MOAVT	0	0	0	1	3
6782	1596-OQSPS	1	0	0	0	11
6783	9867-XOBQA	1	0	0	1	21

6784	9546-KDTRB	1	0	0	0	19
6785	3090-HAWSU	0	0	0	0	61
6786	9820-RMCQV	1	0	0	0	11
6787	3174-RKMOW	0	0	1	1	35
6788	1760-CAZHT	0	0	0	1	25
6789	7839-QRKXN	1	0	0	0	1
6790	8441-SHIPE	1	0	0	0	67
6791	5204-QZXPU	0	0	0	0	19
6792	4597-ELFTS	0	0	0	0	56
6793	1320-GVNHT	0	0	1	1	72
6794	1047-RNXZV	0	0	0	0	43
6795	3541-ZNUHK	1	0	1	1	55
6796	8450-JOVAH	0	0	1	1	2
6797	8725-JEDFD	0	0	0	0	27
6798	7562-UXTPG	1	0	0	0	13
6799	8071-SBTRN	1	0	0	0	70
6800	1113-IUJYX	1	0	1	0	14
6801	6668-CNMFP	1	0	1	1	19
6802	5626-MGTUK	1	0	0	0	20
6803	5681-LLOEI	0	0	1	1	43
6804	8212-DJRCH	0	0	1	1	5
6805	4323-OHFOW	1	1	1	0	70
6806	4933-BSAIP	1	0	1	0	40
6807	2030-BTZRO	0	0	1	1	6
6808	1116-DXXDF	0	0	0	0	39
6809	9274-CNFMO	0	1	1	0	4
6810	7758-XKCBS	0	0	0	0	15
6811	8992-JQYUN	0	0	1	0	1
6812	6563-VNPMN	1	1	0	0	45
6813	0617-AQNWT	1	0	1	0	64
6814	2267-WTPYD	1	1	1	0	57
6815	0270-THENM	0	0	1	1	72
6816	2446-PLQVO	0	0	0	0	1
6817	4707-MAXGU	0	0	1	0	72
6818	2710-WYVXG	1	0	0	0	3
6819	3005-NFMTA	0	1	0	0	55
6820	6300-BWMJX	1	0	1	0	59
6821	8784-CGILN	1	0	0	0	18
6822	5389-FFVKB	0	1	1	0	32
6823	7009-LGECI	1	0	0	0	4
6824	8444-WRIDW	1	1	0	0	66
6825	5022-KVDQT	0	0	0	0	27
6826	7976-CICYS	0	0	0	0	4
6827	1036-GUDCL	0	0	1	1	60
6828	2005-DWQZJ	1	0	1	1	8
6829	8148-WOCMK	0	0	1	1	8
6830	7815-PDTHL	0	0	0	0	35
6831	9451-LPG00	0	0	0	0	7

6832	9173-IVZVP	1	0	1	1	53
6833	9129-UXERG	1	1	0	0	18
6834	3635-JBPSG	1	0	0	0	15
6835	7964-ZRKKG	0	0	1	0	67
6836	5868-YWPDW	0	1	1	0	6
6837	6229-LSCKB	0	1	0	0	6
6838	2025-JKFWI	0	0	0	0	13
6839	4078-SAYYN	1	0	0	0	11
6840	1724-IQWNM	0	0	0	1	1
6841	8217-QYOHV	0	0	0	0	5
6842	5546-QUERU	0	0	0	0	13
6843	9940-HPQPG	1	0	1	0	9
6844	6897-UUBNU	0	0	0	0	29
6845	6127-IYJOZ	0	1	0	0	1
6846	6618-RYATB	1	0	0	0	1
6847	8930-XOTDP	1	0	1	1	18
6848	5916-QEWPT	1	0	1	0	2
6849	5060-TQUQN	0	0	1	1	30
6850	0531-XBKMM	0	0	0	1	66
6851	8465-SBRXP	0	0	1	1	38
6852	2408-PSJVE	0	0	1	1	44
6853	9079-YEXQJ	1	0	0	0	54
6854	9700-ZCLOT	0	0	0	0	2
6855	8738-JOKAR	1	0	0	0	42
6856	4534-WGCIR	1	0	1	1	58
6857	1930-WNXSB	0	0	1	1	58
6858	2685-SREOM	1	0	1	1	25
6859	3508-CFVZL	1	0	0	0	71
6860	0402-CQAJN	1	0	0	0	37
6861	6692-UDPJC	1	0	1	1	14
6862	1273-MTETI	1	1	0	0	4
6863	0657-DOGUM	1	0	1	0	48
6864	5480-HPRRX	1	1	0	0	3
6865	8792-AOROI	1	0	1	0	8
6866	0295-PPHDO	0	0	0	0	1
6867	5146-YYFRZ	0	0	0	0	67
6868	1195-OIYEJ	0	0	0	0	13
6869	5906-CVLHP	1	0	1	1	45
6870	3452-SRFEG	0	0	0	0	49
6871	4070-OKWVH	1	0	1	0	52
6872	5297-MDOIR	1	0	1	0	63
6873	6369-MCAKO	1	0	1	1	68
6874	4926-UMJZD	1	0	1	0	31
6875	6848-HJTXY	1	0	1	0	64
6876	6341-AEVKX	1	0	1	0	62
6877	4501-EQDRN	1	0	0	0	1
6878	2990-HWIML	1	0	0	0	6
6879	0682-USIXD	1	0	1	0	21

6880	6976-BWGLQ	1	0	1	1	72
6881	7078-NVFAM	1	0	1	1	32
6882	8065-QBYTO	1	1	0	0	71
6883	2133-TSRRM	1	0	0	1	34
6884	7384-GHBPI	0	0	1	0	3
6885	7603-USHJS	0	0	0	1	12
6886	7234-FECYN	1	1	0	0	8
6887	2511-ALLCS	1	0	1	1	35
6888	3191-CSNMG	1	0	1	1	3
6889	7952-OBOYL	0	0	0	0	3
6890	7470-DYNOE	0	0	0	0	53
6891	7853-OETYL	1	0	1	0	4
6892	1545-ACTAS	1	0	1	1	48
6893	5876-HZVZM	1	0	1	1	6
6894	1400-MMYXY	0	1	1	0	3
6895	5126-RCXYW	0	0	1	1	54
6896	3085-QUOZK	1	0	0	0	1
6897	2363-BJLSL	0	0	0	0	62
6898	1956-YIFGE	0	0	1	1	22
6899	3926-CUQZX	0	0	0	0	1
6900	7921-LMDFQ	0	1	0	0	51
6901	2925-MXLSX	1	0	0	0	30
6902	5820-PTRYM	1	1	1	0	56
6903	9609-BENEA	0	0	1	0	35
6904	6211-WHMYA	1	1	0	0	64
6905	4459-BBGHE	0	0	0	1	30
6906	9945-PSVIP	1	0	1	1	25
6907	1041-RXHRA	1	0	0	0	41
6908	1750-CSKKM	0	0	0	1	9
6909	9108-EJFJP	1	0	1	0	1
6910	0530-IJVDB	0	0	0	1	70
6911	0508-SQWPL	1	0	1	1	57
6912	2215-ZAFGX	0	0	0	0	9
6913	8213-TAZPM	1	0	1	1	69
6914	7142-HVGBG	0	1	1	0	43
6915	1304-SEGFY	1	0	1	0	72
6916	7242-EDTYC	0	0	0	1	44
6917	2904-GGUAZ	1	0	1	0	72
6918	8267-ZNYVZ	1	0	1	0	33
6919	5136-GFPMB	0	0	0	0	54
6920	2595-KIWPV	0	0	0	1	27
6921	5243-SAOTC	0	0	0	0	54
6922	9398-MMQTO	0	0	0	0	3
6923	7619-PLRLP	1	0	1	0	53
6924	6457-GIRWB	0	0	0	0	1
6925	6508-NJYRO	0	0	1	0	15
6926	1450-SKCVI	1	0	0	0	56
6927	4710-NKCAW	0	0	1	1	5

6928	5306-BVTKJ	0	0	1	1	48
6929	0357-NVCRI	1	0	0	1	25
6930	5570-PTWEH	1	0	1	0	3
6931	2371-KFUOG	0	0	0	0	58
6932	0463-ZSDNT	0	0	0	0	10
6933	6502-MJQAE	0	0	0	0	1
6934	6257-DTAYD	0	0	1	0	71
6935	4616-ULAOA	1	0	1	1	65
6936	7693-LCKZL	0	0	1	1	5
6937	7746-AWNQW	1	0	0	0	28
6938	5996-EBTKM	1	0	1	1	67
6939	2758-RNWXS	0	0	0	0	35
6940	2314-TNDJQ	1	0	1	1	72
6941	2405-LBMUW	1	0	1	1	61
6942	3454-JFUBC	0	1	0	0	68
6943	0032-PGELS	1	0	1	1	1
6944	9039-ZVJDC	0	0	0	0	3
6945	6797-LNAQX	0	0	1	1	70
6946	9013-AQORL	1	0	0	1	48
6947	2898-MRKPI	0	0	1	1	68
6948	2750-BJLSB	1	0	0	0	47
6949	3648-GZPHF	0	0	1	1	32
6950	2075-RMJIK	1	0	1	1	5
6951	9588-YRFHY	0	0	0	0	49
6952	6394-MFYNG	1	0	0	0	48
6953	1564-NTYXF	1	1	0	0	13
6954	9364-YKUVW	0	0	0	0	15
6955	5392-AKEMH	1	0	0	0	12
6956	2451-YMUXS	0	1	0	0	67
6957	3914-FDRHP	0	0	0	0	9
6958	3078-ZKNTS	1	0	1	1	13
6959	1024-KPRBB	1	0	0	0	38
6960	4690-PKDQG	1	1	1	0	42
6961	8155-IBNHG	1	0	1	0	24
6962	0886-QGENL	1	1	1	0	27
6963	9547-ITEFG	0	0	1	1	9
6964	1264-FUHCX	1	0	1	0	49
6965	7789-CRUVV	1	1	1	0	61
6966	6598-KELSS	0	0	0	1	50
6967	8739-WWKDU	0	1	0	0	25
6968	8685-WHQPW	1	1	0	0	22
6969	4745-LSPLO	0	0	0	0	1
6970	8083-YTZES	0	0	0	0	4
6971	7240-FQLHE	1	1	1	0	18
6972	6664-FPDAC	1	1	0	0	56
6973	9972-VAFJJ	1	1	1	0	53
6974	0422-UXFAP	1	0	1	0	51
6975	1904-WAJAA	1	0	1	1	24

6976	5130-YPIRV	1	0	1	0	62
6977	2843-CQMEG	0	0	0	0	24
6978	6439-PKTRR	1	0	1	1	70
6979	5351-QESIO	0	0	0	1	1
6980	0786-VSSUD	0	1	0	0	16
6981	5568-DMXZS	1	0	0	0	8
6982	8468-FZTOE	1	0	1	1	72
6983	6633-SYEUS	1	0	0	0	23
6984	6447-GORXK	0	0	0	1	31
6985	6967-PEJLL	0	0	1	1	37
6986	3976-BWUCK	1	0	1	0	30
6987	5981-ZVXOT	1	1	0	0	35
6988	1684-FLBGS	1	0	1	1	23
6989	1389-WNUIB	1	0	1	1	20
6990	0376-OIWME	0	0	1	0	36
6991	3585-ISXZP	1	0	0	0	8
6992	0218-QNVAS	0	0	1	1	71
6993	6583-QGCSI	1	1	1	0	50
6994	0804-YGEQV	1	0	1	1	43
6995	7164-BPTUT	0	0	0	1	57
6996	4174-LPGTI	1	0	1	1	41
6997	2523-EWWZL	1	0	1	0	27
6998	0928-XUTSN	1	0	0	0	13
6999	2108-XWMPY	0	0	0	0	3
7000	0052-YNYOT	1	0	0	0	67
7001	6304-IJFSQ	0	0	0	0	3
7002	9586-JGQKH	1	0	1	0	64
7003	4501-VCPFK	0	0	0	0	26
7004	6075-SLNIL	0	0	0	0	38
7005	9347-AERRL	0	0	1	0	23
7006	0093-XWZFY	0	0	0	0	40
7007	2274-XUATA	0	1	1	0	72
7008	1980-KXVPM	1	1	0	0	3
7009	7703-ZEKEF	0	0	0	0	23
7010	0723-DRCLG	1	1	1	0	1
7011	5482-NUPNA	1	0	0	0	4
7012	6691-CCIHA	1	0	1	0	62
7013	1685-BQULA	1	0	0	0	40
7014	9053-EJUNL	0	0	0	0	41
7015	0666-UCTJO	0	1	1	0	34
7016	1471-GIQKQ	1	0	0	0	1
7017	4807-IZYOZ	1	0	0	0	51
7018	1122-JWTJW	0	0	1	1	1
7019	9710-NJERN	1	0	0	0	39
7020	9837-FWLCH	0	0	1	1	12
7021	1699-HPSBG	0	0	0	0	12
7022	7203-OYKCT	0	0	0	0	72
7023	1035-IPQPU	1	1	1	0	63

7024	7398-LXGYX	0	0	1	0	44
7025	2823-LKABH	1	0	0	0	18
7026	8775-CEBBJ	1	0	0	0	9
7027	0550-DCXLH	0	0	0	0	13
7028	9281-CEDRU	1	0	1	0	68
7029	2235-DWLJU	1	1	0	0	6
7030	0871-OPBXW	1	0	0	0	2
7031	3605-JISKB	0	1	1	0	55
7032	6894-LFHLY	0	1	0	0	1
7033	9767-FFLEM	0	0	0	0	38
7034	0639-TSIQW	1	0	0	0	67
7035	8456-QDAVC	0	0	0	0	19
7036	7750-EYXWZ	1	0	0	0	12
7037	2569-WGERO	1	0	0	0	72
7038	6840-RESVB	0	0	1	1	24
7039	2234-XADUH	1	0	1	1	72
7040	4801-JZAZL	1	0	1	1	11
7041	8361-LTMKD	0	1	1	0	4
7042	3186-AJIEK	0	0	0	0	66

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	tech_support	streaming_tv	streaming_movies	contract	\
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1	0	0	0	One year	
2	0	0	0	Month-to-month	
3	1	0	0	One year	
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5	0	1	1	Month-to-month	
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7	0	0	0	Month-to-month	
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9	0	0	0	One year	
10	0	0	0	Month-to-month	
11	0	0	0	Two year	
12	0	1	1	One year	
13	0	1	1	Month-to-month	
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15	1	1	1	Two year	
16	0	0	0	One year	
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31	0	1	1	Month-to-month	

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41	0	1	0	Two year
42	0	0	0	One year
43	1	1	0	Two year
44	1	1	0	Month-to-month
45	0	0	1	Month-to-month
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47	0	1	0	Month-to-month
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55	0	1	1	Month-to-month
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69	0	0	0	Month-to-month
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82	0	0	0	Month-to-month
83	1	1	1	Month-to-month
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85	0	1	1	Month-to-month
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87	0	0	0	Two year
88	0	0	0	Two year
89	0	1	0	Month-to-month
90	0	0	0	Month-to-month
91	1	0	0	Month-to-month
92	1	1	1	Two year
93	0	1	1	Month-to-month
94	0	1	1	Two year
95	0	0	0	Month-to-month
96	1	0	0	One year
97	0	0	0	Month-to-month
98	0	0	0	Two year
99	0	1	1	Month-to-month
100	0	0	0	Month-to-month
101	0	0	0	Month-to-month
102	1	1	0	One year
103	0	1	0	One year
104	1	1	1	Two year
105	0	0	0	Month-to-month
106	0	1	1	One year
107	0	0	0	One year
108	0	1	1	One year
109	0	0	0	Two year
110	0	1	0	Month-to-month
111	1	0	0	One year
112	0	1	0	Month-to-month
113	0	0	0	Month-to-month
114	1	1	1	Two year
115	0	1	0	Month-to-month
116	0	0	0	Two year
117	0	1	1	Month-to-month
118	0	0	0	Two year
119	1	0	0	Month-to-month
120	0	1	1	One year
121	0	0	0	Month-to-month
122	0	0	0	Month-to-month
123	0	0	0	Month-to-month
124	0	0	0	Month-to-month
125	1	1	0	Two year
126	0	0	0	Month-to-month
127	0	0	0	Two year

128	0	0	0	Month-to-month
129	0	1	1	One year
130	0	0	1	Month-to-month
131	0	1	1	Month-to-month
132	1	0	0	Two year
133	0	0	1	Month-to-month
134	0	0	0	Month-to-month
135	0	0	0	Two year
136	0	0	0	Month-to-month
137	0	0	0	Two year
138	0	0	0	Two year
139	0	0	0	Month-to-month
140	1	1	1	Two year
141	1	0	1	Month-to-month
142	0	1	1	Two year
143	0	0	0	One year
144	0	0	0	Two year
145	1	1	0	Two year
146	0	0	0	One year
147	0	0	0	Month-to-month
148	0	1	0	One year
149	1	0	1	Month-to-month
150	1	1	1	Month-to-month
151	0	1	1	Month-to-month
152	0	1	1	One year
153	1	1	1	Two year
154	0	0	0	Month-to-month
155	0	0	1	Month-to-month
156	0	1	0	Month-to-month
157	0	0	0	One year
158	0	1	0	Two year
159	0	0	0	Two year
160	0	0	0	Month-to-month
161	0	0	0	Month-to-month
162	0	0	0	Month-to-month
163	1	0	1	Two year
164	0	0	0	One year
165	0	0	0	Two year
166	0	0	0	Month-to-month
167	1	1	1	Two year
168	0	0	1	Month-to-month
169	0	0	0	Month-to-month
170	1	0	0	One year
171	1	1	1	Month-to-month
172	1	1	1	Two year
173	0	1	1	One year
174	0	0	0	One year
175	0	0	0	Month-to-month

176	0	0	0	Month-to-month
177	0	0	0	Month-to-month
178	0	1	1	Month-to-month
179	0	0	0	One year
180	0	0	0	Month-to-month
181	0	0	0	Month-to-month
182	0	0	1	Month-to-month
183	0	1	1	One year
184	0	0	0	Month-to-month
185	0	0	0	Month-to-month
186	0	0	0	Month-to-month
187	1	0	0	Month-to-month
188	0	0	0	One year
189	0	0	0	Month-to-month
190	1	0	1	One year
191	0	0	1	Month-to-month
192	0	0	0	Two year
193	0	1	1	Two year
194	0	0	0	Two year
195	1	1	0	Month-to-month
196	0	0	0	Two year
197	1	1	1	Month-to-month
198	1	1	1	Two year
199	0	0	0	Month-to-month
200	1	1	1	One year
201	1	0	0	Month-to-month
202	0	1	1	Two year
203	0	1	0	Month-to-month
204	0	0	0	Month-to-month
205	1	0	0	One year
206	1	0	1	Two year
207	0	0	1	Month-to-month
208	1	1	1	Month-to-month
209	1	1	1	One year
210	0	0	0	Month-to-month
211	0	0	0	Month-to-month
212	0	0	0	Two year
213	0	0	0	One year
214	0	0	1	Month-to-month
215	0	1	1	Month-to-month
216	1	0	0	Two year
217	1	1	0	Two year
218	1	1	1	Two year
219	0	1	0	Month-to-month
220	0	0	0	Month-to-month
221	0	0	0	Two year
222	0	0	0	One year
223	1	0	0	Month-to-month

224	0	0	0	One year
225	0	1	1	One year
226	1	1	1	One year
227	0	1	0	Month-to-month
228	1	0	1	Month-to-month
229	1	1	1	Two year
230	1	1	1	Two year
231	1	0	1	Month-to-month
232	0	0	1	Month-to-month
233	0	0	0	Two year
234	0	0	0	Month-to-month
235	0	0	0	Month-to-month
236	1	0	0	Two year
237	0	0	0	Month-to-month
238	0	1	1	Month-to-month
239	0	0	0	Two year
240	1	1	1	Two year
241	1	1	1	Two year
242	1	1	1	One year
243	0	0	1	Month-to-month
244	0	0	0	Month-to-month
245	0	0	0	Month-to-month
246	0	0	1	One year
247	0	0	0	Month-to-month
248	0	0	0	Month-to-month
249	0	0	1	One year
250	0	1	0	One year
251	0	0	0	Month-to-month
252	0	1	0	Month-to-month
253	1	1	1	One year
254	0	0	0	Month-to-month
255	1	1	1	Two year
256	1	1	1	Two year
257	1	1	1	One year
258	0	0	0	Month-to-month
259	0	0	1	Month-to-month
260	0	0	1	Month-to-month
261	0	1	1	Month-to-month
262	0	0	1	Month-to-month
263	1	0	1	Two year
264	1	1	1	One year
265	1	1	1	Two year
266	0	0	0	Two year
267	1	1	1	Month-to-month
268	0	0	0	Two year
269	0	0	0	Two year
270	1	1	1	Month-to-month
271	1	0	0	Two year

272	0	0	0	Month-to-month
273	1	1	1	Month-to-month
274	0	0	0	Month-to-month
275	1	0	0	Month-to-month
276	0	1	1	Month-to-month
277	0	0	1	Month-to-month
278	1	1	1	Month-to-month
279	0	0	0	Month-to-month
280	0	0	0	Month-to-month
281	0	0	0	Month-to-month
282	0	0	0	Month-to-month
283	0	0	0	Month-to-month
284	0	1	1	Month-to-month
285	0	0	0	One year
286	0	0	0	Month-to-month
287	0	0	0	Month-to-month
288	0	0	0	Month-to-month
289	0	0	0	Month-to-month
290	0	0	0	Month-to-month
291	0	0	0	One year
292	1	0	0	One year
293	0	1	1	Month-to-month
294	0	0	0	Month-to-month
295	0	0	0	Month-to-month
296	0	0	0	Two year
297	0	1	1	Month-to-month
298	0	1	1	Month-to-month
299	0	0	0	Month-to-month
300	0	1	1	One year
301	0	1	1	Month-to-month
302	1	0	1	Month-to-month
303	1	1	1	Two year
304	0	0	0	Month-to-month
305	0	0	0	Two year
306	0	0	0	Month-to-month
307	1	1	1	Two year
308	0	1	1	Month-to-month
309	0	1	1	One year
310	0	0	0	Month-to-month
311	1	0	1	Month-to-month
312	1	1	1	Two year
313	0	0	0	Month-to-month
314	0	1	0	Month-to-month
315	1	1	1	One year
316	0	0	0	Two year
317	1	1	1	One year
318	0	1	1	Month-to-month
319	1	1	0	Month-to-month

320	1	1	1	One year
321	1	1	1	Two year
322	0	0	0	Month-to-month
323	0	0	0	One year
324	1	1	1	Two year
325	1	1	1	Month-to-month
326	1	1	0	Month-to-month
327	0	0	0	Month-to-month
328	0	1	0	Month-to-month
329	0	0	0	Month-to-month
330	0	0	0	Two year
331	0	0	0	One year
332	0	1	0	One year
333	0	0	0	Month-to-month
334	0	0	0	Month-to-month
335	1	0	1	One year
336	0	1	1	Two year
337	1	1	1	Two year
338	0	1	1	Month-to-month
339	0	1	1	Month-to-month
340	1	0	0	Month-to-month
341	1	1	1	Two year
342	0	0	0	Month-to-month
343	0	0	0	One year
344	0	0	0	One year
345	0	0	0	Month-to-month
346	0	1	1	Month-to-month
347	0	0	0	Two year
348	0	1	1	Month-to-month
349	0	0	1	One year
350	1	0	0	Two year
351	0	0	0	One year
352	0	1	1	Month-to-month
353	0	0	0	Month-to-month
354	0	1	0	Month-to-month
355	0	0	1	Month-to-month
356	0	0	0	Month-to-month
357	1	1	1	Two year
358	0	0	0	Month-to-month
359	0	1	1	One year
360	0	0	0	Month-to-month
361	1	1	1	Two year
362	0	0	0	One year
363	0	0	0	Two year
364	1	0	0	Month-to-month
365	0	1	1	Month-to-month
366	0	0	1	Month-to-month
367	0	0	0	Month-to-month

368	0	1	1	One year
369	1	1	1	Two year
370	0	0	0	One year
371	0	1	0	Month-to-month
372	1	0	0	Two year
373	1	0	1	One year
374	0	1	1	Month-to-month
375	1	1	1	One year
376	0	0	0	Month-to-month
377	1	1	1	Month-to-month
378	1	1	1	Two year
379	1	0	0	One year
380	1	0	0	One year
381	0	0	0	Month-to-month
382	1	1	1	Two year
383	0	0	1	Month-to-month
384	0	1	1	Two year
385	0	0	0	Month-to-month
386	0	0	0	Month-to-month
387	1	0	1	One year
388	0	0	1	Month-to-month
389	0	0	0	Month-to-month
390	0	1	1	Month-to-month
391	1	1	1	Month-to-month
392	0	0	0	Month-to-month
393	0	0	0	Month-to-month
394	0	1	1	Month-to-month
395	1	1	1	Two year
396	1	1	1	Month-to-month
397	0	0	0	Month-to-month
398	1	1	1	Month-to-month
399	0	0	0	One year
400	0	0	0	One year
401	0	0	0	One year
402	0	1	1	Month-to-month
403	1	0	0	One year
404	0	0	0	Two year
405	0	0	0	Two year
406	0	1	0	One year
407	0	1	1	Month-to-month
408	0	0	0	Month-to-month
409	0	0	0	Month-to-month
410	0	0	0	Month-to-month
411	0	0	0	One year
412	0	0	0	Month-to-month
413	1	0	0	Month-to-month
414	0	0	0	Month-to-month
415	0	0	0	Month-to-month

416	1	0	1	Two year
417	0	0	0	Two year
418	0	0	1	Month-to-month
419	0	0	0	Month-to-month
420	0	0	0	Month-to-month
421	0	0	0	Month-to-month
422	1	0	1	One year
423	0	0	0	One year
424	0	0	0	Month-to-month
425	0	0	0	Month-to-month
426	0	1	1	One year
427	0	0	1	Month-to-month
428	0	0	0	Month-to-month
429	1	0	0	One year
430	0	0	0	Month-to-month
431	1	1	1	Two year
432	0	0	0	Month-to-month
433	0	0	0	Month-to-month
434	0	0	0	Two year
435	1	1	0	Month-to-month
436	0	0	0	One year
437	1	1	1	Two year
438	1	0	1	Month-to-month
439	1	0	0	Month-to-month
440	1	1	1	Month-to-month
441	0	1	1	Month-to-month
442	1	1	1	One year
443	0	0	1	Month-to-month
444	0	0	1	Month-to-month
445	0	1	1	Month-to-month
446	0	0	0	Month-to-month
447	0	0	0	Two year
448	0	1	1	Month-to-month
449	1	1	1	Two year
450	0	0	0	One year
451	1	0	1	Month-to-month
452	1	1	1	Month-to-month
453	0	0	1	Month-to-month
454	0	0	0	Two year
455	0	1	1	Month-to-month
456	1	1	0	One year
457	1	1	1	Two year
458	0	0	0	Month-to-month
459	0	0	0	Month-to-month
460	0	0	0	Month-to-month
461	0	1	1	Month-to-month
462	0	1	1	Month-to-month
463	0	1	1	Month-to-month

464	1	1	1	Two year
465	1	0	1	Two year
466	1	1	1	Two year
467	0	1	0	One year
468	0	0	0	Two year
469	0	0	1	Month-to-month
470	0	0	0	One year
471	0	0	1	Month-to-month
472	0	1	1	Month-to-month
473	1	0	0	Month-to-month
474	0	0	0	Month-to-month
475	0	0	0	Month-to-month
476	1	1	1	Month-to-month
477	1	1	0	Month-to-month
478	1	1	1	Month-to-month
479	0	0	0	Month-to-month
480	0	0	0	Two year
481	0	0	1	Month-to-month
482	0	0	1	Month-to-month
483	1	1	1	One year
484	0	1	0	Month-to-month
485	0	0	1	Two year
486	0	1	1	Month-to-month
487	1	1	1	Two year
488	1	1	0	Two year
489	0	0	0	Month-to-month
490	0	1	1	Two year
491	0	1	0	Month-to-month
492	0	0	0	Month-to-month
493	0	0	1	One year
494	0	0	0	Month-to-month
495	0	0	1	One year
496	1	0	0	Month-to-month
497	0	0	0	Two year
498	0	0	0	Month-to-month
499	0	0	1	Month-to-month
...
6543	0	0	0	One year
6544	0	1	1	Month-to-month
6545	0	1	1	Month-to-month
6546	0	0	0	Month-to-month
6547	0	0	0	Two year
6548	1	0	0	Month-to-month
6549	0	0	1	Month-to-month
6550	1	1	1	Month-to-month
6551	0	1	1	One year
6552	0	0	1	Month-to-month
6553	1	1	1	Two year

6554	0	0	0	Month-to-month
6555	0	0	0	One year
6556	0	0	0	One year
6557	0	1	1	Month-to-month
6558	0	0	0	Month-to-month
6559	1	1	1	Month-to-month
6560	0	0	0	One year
6561	0	0	0	Month-to-month
6562	0	1	1	Month-to-month
6563	0	0	0	Month-to-month
6564	0	0	0	Month-to-month
6565	0	1	1	Month-to-month
6566	1	1	1	Two year
6567	0	1	1	Month-to-month
6568	0	0	0	Two year
6569	0	0	0	Two year
6570	0	0	0	Month-to-month
6571	0	0	0	One year
6572	1	1	1	Two year
6573	1	0	1	One year
6574	0	1	0	Month-to-month
6575	1	0	0	Month-to-month
6576	0	0	0	Month-to-month
6577	1	1	0	Two year
6578	1	0	1	One year
6579	1	1	1	Two year
6580	0	1	1	One year
6581	1	1	0	One year
6582	0	1	1	Two year
6583	0	0	0	One year
6584	0	0	0	Two year
6585	0	0	0	One year
6586	0	0	0	Two year
6587	0	1	1	Month-to-month
6588	0	0	0	Two year
6589	0	0	0	Two year
6590	0	0	0	Month-to-month
6591	0	0	0	Month-to-month
6592	1	1	0	One year
6593	1	1	1	Month-to-month
6594	0	0	0	Month-to-month
6595	1	1	1	Two year
6596	1	1	0	One year
6597	1	1	1	Month-to-month
6598	1	1	0	Two year
6599	0	1	0	Month-to-month
6600	0	0	0	Month-to-month
6601	1	1	1	Two year

6602	0	1	0	Month-to-month
6603	1	1	0	Month-to-month
6604	0	0	0	Month-to-month
6605	1	1	1	One year
6606	1	1	1	Month-to-month
6607	0	0	0	Month-to-month
6608	1	0	0	One year
6609	0	0	0	Month-to-month
6610	0	1	0	Month-to-month
6611	1	1	0	One year
6612	0	0	0	Month-to-month
6613	0	0	0	Month-to-month
6614	0	0	0	Two year
6615	0	0	0	Month-to-month
6616	0	1	1	Month-to-month
6617	0	1	1	One year
6618	0	0	0	Month-to-month
6619	0	0	0	Month-to-month
6620	0	0	1	Month-to-month
6621	0	0	0	Two year
6622	0	0	1	Month-to-month
6623	0	0	0	Month-to-month
6624	1	1	1	Two year
6625	0	1	0	Month-to-month
6626	0	1	1	Month-to-month
6627	0	0	0	One year
6628	0	1	1	One year
6629	0	1	1	Two year
6630	0	0	1	Month-to-month
6631	0	0	0	Month-to-month
6632	1	0	0	Month-to-month
6633	0	0	0	Month-to-month
6634	0	1	1	Month-to-month
6635	0	0	0	One year
6636	0	1	0	One year
6637	0	0	0	One year
6638	0	0	0	Two year
6639	1	1	1	One year
6640	1	1	0	One year
6641	0	0	0	Month-to-month
6642	1	1	1	Month-to-month
6643	0	0	0	Month-to-month
6644	0	1	1	One year
6645	0	0	0	Month-to-month
6646	0	0	0	One year
6647	0	1	1	Two year
6648	0	0	0	Month-to-month
6649	0	0	0	Month-to-month

6650	0	0	0	Month-to-month
6651	1	0	0	Month-to-month
6652	0	0	0	Two year
6653	0	0	0	Month-to-month
6654	0	1	0	Month-to-month
6655	0	0	0	Two year
6656	0	0	0	Two year
6657	0	0	0	One year
6658	0	0	0	Month-to-month
6659	1	1	1	Two year
6660	0	0	0	Month-to-month
6661	1	1	1	Two year
6662	1	0	0	One year
6663	0	1	0	Month-to-month
6664	0	1	1	One year
6665	0	0	0	Month-to-month
6666	1	1	1	Month-to-month
6667	0	0	1	Month-to-month
6668	1	1	1	Month-to-month
6669	0	1	1	Month-to-month
6670	1	1	0	Two year
6671	1	1	1	Two year
6672	0	0	0	Two year
6673	0	0	0	Month-to-month
6674	0	0	0	Month-to-month
6675	1	0	1	One year
6676	0	1	0	Month-to-month
6677	0	0	0	Month-to-month
6678	0	0	0	Two year
6679	1	0	0	Two year
6680	1	1	0	Two year
6681	0	1	0	Month-to-month
6682	1	1	0	Two year
6683	1	0	1	One year
6684	1	0	0	One year
6685	0	0	0	Month-to-month
6686	1	1	1	Two year
6687	0	0	0	Month-to-month
6688	0	0	0	Two year
6689	1	1	1	One year
6690	1	1	0	Two year
6691	1	0	0	One year
6692	1	0	1	Month-to-month
6693	0	1	1	Month-to-month
6694	1	0	1	Two year
6695	1	0	0	Two year
6696	0	0	1	Month-to-month
6697	0	1	1	One year

6698	1	0	1	One year
6699	0	0	0	Two year
6700	0	1	1	Two year
6701	0	1	1	One year
6702	1	0	1	Month-to-month
6703	0	1	1	Month-to-month
6704	0	1	1	One year
6705	1	0	0	Month-to-month
6706	0	0	0	Month-to-month
6707	0	0	0	Two year
6708	0	0	0	Month-to-month
6709	1	1	1	One year
6710	1	1	0	One year
6711	0	1	1	Month-to-month
6712	0	1	0	Month-to-month
6713	0	0	1	Month-to-month
6714	1	1	1	Month-to-month
6715	0	1	0	Month-to-month
6716	0	0	0	Month-to-month
6717	0	1	1	Month-to-month
6718	0	0	0	Month-to-month
6719	0	0	0	Two year
6720	1	1	1	Two year
6721	1	1	1	Two year
6722	0	1	1	One year
6723	0	0	0	Two year
6724	1	1	0	Two year
6725	0	0	0	Month-to-month
6726	0	0	0	Month-to-month
6727	0	1	1	Month-to-month
6728	1	1	1	Two year
6729	1	1	1	Two year
6730	0	0	0	One year
6731	0	0	0	Two year
6732	1	0	1	Month-to-month
6733	0	0	0	Month-to-month
6734	1	0	0	Month-to-month
6735	1	1	1	Two year
6736	0	0	0	Two year
6737	1	1	1	Two year
6738	0	0	0	Month-to-month
6739	0	0	1	Month-to-month
6740	0	0	0	Month-to-month
6741	0	1	1	Month-to-month
6742	0	1	1	Two year
6743	0	0	0	Month-to-month
6744	0	1	0	One year
6745	1	1	1	Month-to-month

6746	1	0	0	Month-to-month
6747	0	0	0	One year
6748	0	0	1	Month-to-month
6749	1	1	0	One year
6750	0	0	0	One year
6751	0	0	0	Two year
6752	1	0	1	Two year
6753	0	0	1	One year
6754	1	0	0	Two year
6755	0	0	0	Month-to-month
6756	0	1	1	Month-to-month
6757	0	1	1	One year
6758	0	0	0	Month-to-month
6759	0	0	1	One year
6760	0	0	0	Month-to-month
6761	0	0	0	Month-to-month
6762	0	1	0	Month-to-month
6763	1	0	1	One year
6764	0	0	0	Month-to-month
6765	0	0	0	Two year
6766	0	0	0	One year
6767	1	0	0	Month-to-month
6768	1	1	1	Two year
6769	0	0	0	Two year
6770	0	1	0	Month-to-month
6771	0	0	0	Month-to-month
6772	1	0	1	One year
6773	0	1	1	Month-to-month
6774	0	0	0	Month-to-month
6775	0	1	1	Two year
6776	1	1	1	Two year
6777	1	0	0	Month-to-month
6778	0	0	0	Two year
6779	1	0	0	Month-to-month
6780	0	0	0	Month-to-month
6781	0	0	0	Month-to-month
6782	0	0	0	Month-to-month
6783	1	1	0	Two year
6784	0	0	0	Month-to-month
6785	1	1	1	Two year
6786	0	0	0	Month-to-month
6787	1	1	1	Month-to-month
6788	0	0	0	Month-to-month
6789	0	0	0	Month-to-month
6790	0	0	0	Two year
6791	0	1	0	Month-to-month
6792	0	0	0	One year
6793	0	1	1	Two year

6794	0	0	0	Two year
6795	0	0	0	Month-to-month
6796	0	0	0	Month-to-month
6797	0	0	0	Month-to-month
6798	0	0	0	Month-to-month
6799	0	1	1	Two year
6800	1	1	1	One year
6801	1	0	1	One year
6802	0	1	0	Month-to-month
6803	1	0	0	One year
6804	0	0	1	Month-to-month
6805	1	1	1	One year
6806	0	0	0	Two year
6807	0	0	0	Two year
6808	0	1	1	Two year
6809	0	0	0	Month-to-month
6810	1	0	0	Month-to-month
6811	0	1	1	Month-to-month
6812	1	0	0	Month-to-month
6813	1	0	1	Two year
6814	0	0	1	Month-to-month
6815	1	0	0	Two year
6816	0	0	0	Month-to-month
6817	0	0	0	Two year
6818	1	0	1	Two year
6819	0	1	1	Month-to-month
6820	1	1	0	Month-to-month
6821	1	1	1	Month-to-month
6822	0	0	1	Month-to-month
6823	0	0	0	Month-to-month
6824	0	0	0	Month-to-month
6825	0	0	0	Month-to-month
6826	0	0	0	Month-to-month
6827	1	1	1	Month-to-month
6828	0	0	0	Two year
6829	0	0	0	Two year
6830	0	0	0	Two year
6831	0	0	1	Month-to-month
6832	0	0	0	Two year
6833	1	1	1	Month-to-month
6834	0	0	1	Two year
6835	0	1	0	One year
6836	0	0	1	Month-to-month
6837	0	1	0	Month-to-month
6838	1	1	1	Month-to-month
6839	0	1	1	Month-to-month
6840	0	0	0	Month-to-month
6841	1	0	0	Month-to-month

6842	0	0	0	One year
6843	0	0	0	Month-to-month
6844	1	1	0	Month-to-month
6845	0	0	0	Month-to-month
6846	0	0	0	Month-to-month
6847	0	1	0	Month-to-month
6848	0	1	1	Month-to-month
6849	1	0	0	Month-to-month
6850	1	0	0	Two year
6851	1	1	0	Two year
6852	1	0	0	Month-to-month
6853	1	1	1	Month-to-month
6854	0	0	0	Month-to-month
6855	1	0	1	One year
6856	0	0	0	Two year
6857	0	1	1	Month-to-month
6858	0	0	1	Month-to-month
6859	1	1	1	Two year
6860	0	1	1	Month-to-month
6861	1	1	0	Month-to-month
6862	0	0	1	Month-to-month
6863	1	0	0	One year
6864	0	0	0	Month-to-month
6865	1	0	1	Two year
6866	0	1	1	Month-to-month
6867	0	0	0	Two year
6868	0	1	1	Month-to-month
6869	1	0	0	One year
6870	0	0	0	Month-to-month
6871	0	1	0	Month-to-month
6872	0	0	0	One year
6873	1	1	1	Two year
6874	1	0	0	Month-to-month
6875	0	0	0	Two year
6876	1	1	1	One year
6877	0	0	0	Month-to-month
6878	0	1	1	Month-to-month
6879	1	1	0	Month-to-month
6880	0	0	0	Two year
6881	0	0	0	Month-to-month
6882	1	1	0	One year
6883	0	1	1	Month-to-month
6884	0	0	1	Month-to-month
6885	0	0	0	Month-to-month
6886	0	1	1	Month-to-month
6887	0	0	0	Two year
6888	0	1	0	Month-to-month
6889	1	1	0	Month-to-month

6890	0	0	1	One year
6891	0	0	0	Month-to-month
6892	0	1	1	One year
6893	0	0	0	Month-to-month
6894	0	1	1	Month-to-month
6895	1	0	1	Two year
6896	0	0	0	Month-to-month
6897	1	1	1	Month-to-month
6898	0	1	1	One year
6899	0	0	0	Month-to-month
6900	0	1	1	One year
6901	0	1	0	One year
6902	1	0	0	One year
6903	1	1	0	One year
6904	1	1	0	Month-to-month
6905	0	1	1	Month-to-month
6906	0	0	0	Two year
6907	0	0	0	Month-to-month
6908	0	1	0	Month-to-month
6909	0	0	0	Month-to-month
6910	1	1	1	Two year
6911	0	0	0	Two year
6912	0	1	0	Month-to-month
6913	1	1	1	One year
6914	0	1	1	Month-to-month
6915	0	1	1	Two year
6916	0	0	0	Two year
6917	0	0	0	Two year
6918	1	1	1	One year
6919	0	0	1	Month-to-month
6920	0	0	0	Two year
6921	0	0	0	Month-to-month
6922	0	0	0	Month-to-month
6923	0	0	1	One year
6924	0	0	0	Month-to-month
6925	0	0	0	One year
6926	0	0	0	Month-to-month
6927	1	0	0	Month-to-month
6928	0	0	0	One year
6929	0	0	0	Month-to-month
6930	0	0	0	Month-to-month
6931	0	1	1	One year
6932	0	0	1	Month-to-month
6933	0	0	0	Month-to-month
6934	1	1	1	Two year
6935	1	1	1	Two year
6936	0	0	0	Month-to-month
6937	1	0	0	Month-to-month

6938	1	0	1	Two year
6939	1	0	1	One year
6940	1	0	1	Two year
6941	1	0	1	One year
6942	0	0	0	Two year
6943	0	0	0	Month-to-month
6944	0	0	0	Month-to-month
6945	0	1	1	Two year
6946	0	0	1	Month-to-month
6947	0	1	1	One year
6948	1	1	1	One year
6949	1	0	0	One year
6950	0	0	0	Month-to-month
6951	0	0	0	Two year
6952	0	1	1	Month-to-month
6953	0	0	1	Month-to-month
6954	0	0	0	Month-to-month
6955	0	0	0	Month-to-month
6956	1	0	0	Two year
6957	1	1	0	Month-to-month
6958	0	0	0	Two year
6959	0	1	1	One year
6960	0	1	0	Month-to-month
6961	0	0	0	Month-to-month
6962	0	1	1	Month-to-month
6963	0	1	1	Month-to-month
6964	1	1	1	One year
6965	1	0	0	Month-to-month
6966	0	1	0	One year
6967	0	1	0	Month-to-month
6968	0	0	0	Month-to-month
6969	0	0	0	Month-to-month
6970	0	0	0	Month-to-month
6971	1	1	1	Month-to-month
6972	1	1	1	One year
6973	1	1	0	One year
6974	0	1	1	One year
6975	0	0	0	Two year
6976	0	1	0	Two year
6977	0	0	0	Month-to-month
6978	1	1	0	Two year
6979	0	0	0	Month-to-month
6980	0	1	0	Month-to-month
6981	1	1	0	Month-to-month
6982	1	0	1	Two year
6983	1	0	0	Month-to-month
6984	0	0	0	Month-to-month
6985	1	0	0	One year

6986	1	1	0	Month-to-month
6987	0	1	1	One year
6988	1	1	0	Month-to-month
6989	0	1	1	One year
6990	0	1	1	Month-to-month
6991	0	1	1	Month-to-month
6992	0	1	1	One year
6993	0	1	0	Month-to-month
6994	0	0	0	One year
6995	1	1	1	Two year
6996	1	0	1	One year
6997	0	0	0	Month-to-month
6998	0	0	1	Month-to-month
6999	0	0	0	Month-to-month
7000	0	0	0	One year
7001	0	0	0	Month-to-month
7002	1	1	1	Two year
7003	1	0	0	Month-to-month
7004	0	0	1	Month-to-month
7005	0	0	0	One year
7006	0	1	1	Month-to-month
7007	1	1	1	Two year
7008	0	0	0	Month-to-month
7009	0	0	0	Month-to-month
7010	0	0	0	Month-to-month
7011	1	0	0	Month-to-month
7012	1	1	1	Two year
7013	0	1	0	Month-to-month
7014	0	1	0	Month-to-month
7015	0	1	0	Month-to-month
7016	0	0	0	Month-to-month
7017	0	0	0	Two year
7018	0	0	0	Month-to-month
7019	0	0	0	Two year
7020	0	0	0	Month-to-month
7021	1	1	0	One year
7022	0	1	1	One year
7023	0	1	1	Month-to-month
7024	0	0	0	Month-to-month
7025	1	0	1	Month-to-month
7026	0	0	0	Month-to-month
7027	1	1	1	Month-to-month
7028	1	1	0	Two year
7029	0	1	1	Month-to-month
7030	0	0	0	Month-to-month
7031	0	0	0	One year
7032	0	0	0	Month-to-month
7033	0	0	0	Month-to-month

7034	0	1	0	Month-to-month
7035	0	1	0	Month-to-month
7036	1	1	1	One year
7037	0	0	0	Two year
7038	1	1	1	One year
7039	0	1	1	One year
7040	0	0	0	Month-to-month
7041	0	0	0	Month-to-month
7042	1	1	1	Two year

	paperless_billing	monthly_charges	total_charges	churn	\
0	1	29.85	29.85	0	
1	0	56.95	1889.50	0	
2	1	53.85	108.15	1	
3	0	42.30	1840.75	0	
4	1	70.70	151.65	1	
5	1	99.65	820.50	1	
6	1	89.10	1949.40	0	
7	0	29.75	301.90	0	
8	1	104.80	3046.05	1	
9	0	56.15	3487.95	0	
10	1	49.95	587.45	0	
11	0	18.95	326.80	0	
12	0	100.35	5681.10	0	
13	1	103.70	5036.30	1	
14	1	105.50	2686.05	0	
15	0	113.25	7895.15	0	
16	0	20.65	1022.95	0	
17	0	106.70	7382.25	0	
18	0	55.20	528.35	1	
19	1	90.05	1862.90	0	
20	1	39.65	39.65	1	
21	0	19.80	202.25	0	
22	0	20.15	20.15	1	
23	1	59.90	3505.10	0	
24	0	59.60	2970.30	0	
25	1	55.30	1530.60	0	
26	1	99.35	4749.15	1	
27	0	30.20	30.20	1	
28	1	90.25	6369.45	0	
29	1	64.70	1093.10	1	
30	1	96.35	6766.95	0	
31	1	95.50	181.65	0	
32	0	66.15	1874.45	0	
33	0	20.20	20.20	0	
34	0	45.25	45.25	0	
35	0	99.90	7251.70	0	
36	1	69.70	316.90	1	

37	1	74.80	3548.30	0
38	1	106.35	3549.25	1
39	1	97.85	1105.40	1
40	0	49.55	475.70	0
41	1	69.20	4872.35	0
42	0	20.75	418.25	0
43	1	79.85	4861.45	0
44	1	76.20	981.45	0
45	1	84.50	3906.70	0
46	0	49.25	97.00	0
47	1	80.65	144.15	1
48	1	79.75	4217.80	0
49	1	64.15	4254.10	0
50	1	90.25	3838.75	0
51	1	99.10	1426.40	1
52	1	69.50	1752.65	0
53	1	80.65	633.30	1
54	1	74.85	4456.35	0
55	1	95.45	1752.55	1
56	1	99.65	6311.20	0
57	1	108.45	7076.35	0
58	0	24.95	894.30	0
59	1	107.50	7853.70	0
60	1	100.50	4707.10	0
61	1	89.90	5450.70	0
62	0	42.10	2962.00	0
63	1	54.40	957.10	0
64	0	94.40	857.25	1
65	1	75.30	244.10	0
66	1	78.90	3650.35	0
67	0	79.20	2497.20	0
68	0	20.15	930.90	0
69	1	79.85	887.35	0
70	0	49.05	49.05	0
71	1	20.40	1090.65	0
72	1	111.60	7099.00	0
73	1	24.25	1424.60	0
74	1	64.50	177.40	0
75	0	110.50	6139.50	0
76	0	55.65	2688.85	0
77	0	54.65	482.25	0
78	1	74.75	2111.30	0
79	1	25.90	1216.60	0
80	1	79.35	79.35	1
81	0	50.55	565.35	0
82	1	75.15	496.90	1
83	1	103.80	4327.50	0
84	1	20.15	973.35	0

85	1	99.30	918.75	0
86	1	62.15	2215.45	0
87	0	20.65	1057.00	0
88	1	19.95	927.10	0
89	0	33.75	1009.25	0
90	0	82.05	2570.20	0
91	0	74.70	74.70	0
92	1	84.00	5714.25	0
93	1	111.05	7107.00	0
94	1	100.90	7459.05	0
95	1	78.95	927.35	1
96	1	66.85	4748.70	0
97	0	21.05	113.85	1
98	0	21.00	1107.20	0
99	1	98.50	2514.50	1
100	0	20.20	20.20	0
101	0	19.45	19.45	0
102	0	95.00	3605.60	0
103	0	45.55	3027.25	0
104	1	110.00	7611.85	1
105	0	24.30	100.20	0
106	1	104.15	7303.05	0
107	0	30.15	927.65	0
108	0	94.35	3921.30	0
109	0	19.40	1363.25	0
110	1	96.75	5238.90	1
111	0	57.95	3042.25	0
112	1	91.65	3954.10	0
113	1	76.50	2868.15	1
114	1	54.60	3423.50	0
115	0	89.85	248.40	0
116	0	31.05	1126.35	0
117	1	100.25	1064.65	1
118	0	20.65	835.15	0
119	1	85.20	2151.60	0
120	1	99.80	5515.45	0
121	0	20.70	112.75	0
122	1	74.40	229.55	1
123	0	50.70	350.35	0
124	0	20.85	62.90	0
125	1	88.95	3027.65	0
126	1	78.05	2135.50	1
127	1	23.55	1723.95	0
128	0	19.75	19.75	0
129	1	56.45	3985.35	0
130	1	85.95	1215.65	0
131	1	58.60	1502.65	1
132	0	50.55	3260.10	0

133	1	35.45	35.45	1
134	0	44.35	81.25	1
135	1	25.70	1188.20	0
136	1	75.00	1778.50	0
137	0	20.20	1277.75	0
138	1	19.60	1170.55	0
139	1	70.45	70.45	1
140	1	88.05	6425.65	0
141	0	71.15	563.65	1
142	1	101.05	5971.25	0
143	1	84.30	5289.05	0
144	0	23.95	1756.20	0
145	1	99.05	6416.70	0
146	0	19.60	61.35	0
147	1	45.65	45.65	1
148	0	64.50	1929.95	0
149	1	69.50	1071.40	0
150	1	68.55	564.35	0
151	0	95.00	655.50	1
152	1	108.15	7930.55	0
153	0	86.10	5215.25	0
154	0	19.70	113.50	0
155	1	80.90	1152.80	0
156	1	84.15	1821.95	0
157	0	20.15	419.90	0
158	0	64.25	1024.00	0
159	0	25.70	251.60	0
160	1	56.00	764.55	0
161	0	82.40	1592.35	1
162	1	69.70	135.20	0
163	1	73.90	3958.25	0
164	0	20.60	233.90	0
165	0	19.90	1363.45	0
166	1	70.90	273.00	1
167	1	89.05	6254.45	0
168	1	45.30	2651.20	1
169	0	20.40	321.40	0
170	1	84.25	3539.25	0
171	1	104.40	242.80	1
172	0	81.95	1181.75	0
173	1	94.85	5000.20	1
174	0	20.55	654.55	0
175	0	24.70	780.20	0
176	1	74.45	1145.70	1
177	0	76.45	503.60	1
178	1	105.35	1559.25	0
179	1	20.55	1252.00	0
180	0	29.95	29.95	1

181	0	45.30	45.30	0
182	0	84.50	662.65	1
183	0	74.75	2453.30	0
184	1	79.25	1111.65	1
185	1	24.80	24.80	1
186	1	51.80	1023.85	0
187	0	30.40	82.15	0
188	0	19.65	244.80	0
189	0	56.60	2379.10	0
190	1	71.90	3173.35	0
191	1	91.00	531.00	1
192	0	19.75	1375.40	0
193	0	109.70	8129.30	0
194	0	19.30	1192.70	0
195	1	96.55	1901.65	0
196	1	24.10	587.40	0
197	1	111.35	6519.75	0
198	1	112.25	8041.65	0
199	0	20.75	20.75	0
200	1	101.90	2681.15	0
201	1	80.05	1112.30	0
202	0	105.55	7405.50	0
203	1	78.30	1033.95	0
204	0	68.85	2958.95	0
205	1	79.95	2684.85	0
206	1	55.45	4179.20	0
207	0	79.90	79.90	1
208	1	106.60	1934.45	1
209	1	102.45	6654.10	0
210	1	46.00	84.50	1
211	0	25.25	25.25	0
212	0	19.75	1124.20	0
213	0	20.00	540.05	0
214	0	86.80	1975.85	0
215	1	58.75	3437.45	0
216	0	45.25	3139.80	0
217	1	56.60	3789.20	0
218	1	84.20	5324.50	0
219	1	80.00	624.60	0
220	1	70.15	268.35	1
221	0	24.75	1836.90	0
222	1	20.20	20.20	0
223	0	50.05	179.35	1
224	1	19.35	219.35	0
225	1	50.60	1288.75	0
226	1	81.15	2545.75	0
227	0	55.20	55.20	1
228	1	89.90	2723.15	0

229	1	85.30	4107.25	0
230	1	108.00	5760.65	0
231	1	93.50	4747.50	0
232	1	84.60	84.60	1
233	0	20.25	1566.90	0
234	0	25.15	702.00	0
235	1	54.40	114.10	1
236	1	29.60	299.05	0
237	1	73.15	1305.95	0
238	1	95.00	1120.30	1
239	0	19.75	284.35	0
240	0	86.60	6350.50	0
241	0	109.20	7878.30	0
242	1	74.70	3187.65	0
243	0	94.40	6126.15	0
244	1	54.80	731.30	0
245	0	75.35	273.40	0
246	0	65.00	2531.80	0
247	1	74.40	1074.30	1
248	1	48.55	48.55	1
249	1	99.00	4298.45	0
250	1	93.50	4619.55	0
251	0	70.40	147.15	1
252	0	40.20	40.20	1
253	0	83.70	2633.30	0
254	1	19.85	193.05	0
255	1	59.55	4103.90	0
256	0	115.10	7008.15	0
257	0	114.35	5791.10	0
258	1	44.60	80.55	1
259	1	45.00	1228.65	0
260	1	41.15	132.20	1
261	1	106.90	1364.30	1
262	1	89.85	4925.35	0
263	1	49.85	1520.10	0
264	0	113.30	5032.25	0
265	0	88.10	5526.75	0
266	0	24.90	1195.25	0
267	1	105.00	2007.25	0
268	0	19.35	1099.60	1
269	1	24.25	1732.95	0
270	1	94.45	1511.20	1
271	1	59.75	3450.15	0
272	0	24.80	24.80	1
273	0	107.05	2172.05	0
274	0	70.60	70.60	1
275	1	85.40	401.10	1
276	1	105.05	5624.85	1

277	1	64.95	1339.80	0
278	1	55.00	771.95	0
279	0	50.55	244.75	0
280	0	55.15	322.90	0
281	0	51.20	498.25	0
282	0	25.40	25.40	0
283	0	54.45	3687.75	0
284	0	95.15	1779.95	1
285	1	76.00	1783.60	0
286	1	44.35	927.15	0
287	0	70.00	70.00	1
288	1	74.50	606.55	1
289	1	44.85	435.40	1
290	1	76.10	1712.70	1
291	0	61.20	2021.20	0
292	0	86.80	1940.80	0
293	1	89.35	567.80	0
294	0	19.70	220.35	0
295	0	20.25	20.25	0
296	0	76.05	5436.45	0
297	1	100.80	3437.50	0
298	1	74.55	3015.75	0
299	1	73.60	73.60	1
300	1	64.90	1509.80	0
301	1	95.45	396.10	1
302	1	90.40	356.65	0
303	0	60.30	4109.00	0
304	1	81.85	3141.70	0
305	0	24.80	1229.10	0
306	1	74.90	2303.35	1
307	0	75.55	2054.40	0
308	0	101.15	3741.85	0
309	1	78.75	3682.45	0
310	1	19.25	19.25	0
311	1	89.05	1886.25	0
312	0	115.05	4895.10	0
313	1	69.35	341.60	0
314	1	80.60	415.55	1
315	0	110.05	5686.40	0
316	1	19.90	1355.10	0
317	0	80.30	3058.65	1
318	1	93.15	2231.05	1
319	1	91.50	3236.35	0
320	0	82.45	4350.10	1
321	1	60.00	4264.00	0
322	1	44.80	44.80	0
323	0	48.60	422.30	0
324	1	60.05	4176.70	0

325	1	102.70	5138.10	0
326	1	82.90	880.05	0
327	1	70.35	139.05	1
328	1	35.90	973.65	0
329	1	82.65	1470.05	0
330	1	19.85	739.35	0
331	1	19.20	161.95	0
332	1	94.90	4422.95	0
333	1	73.85	511.25	1
334	0	80.60	155.80	1
335	1	75.80	5293.95	1
336	1	104.60	4759.85	1
337	1	88.15	6148.45	0
338	1	94.80	3565.65	0
339	1	103.40	6603.00	1
340	0	54.65	1830.10	0
341	0	85.75	6223.80	0
342	1	67.45	4508.65	0
343	0	20.50	1328.15	0
344	1	20.25	865.00	0
345	1	72.10	72.10	0
346	1	90.40	168.20	1
347	0	19.45	1303.50	0
348	1	44.95	996.85	0
349	0	97.00	6430.90	0
350	1	62.80	2278.75	0
351	0	44.60	681.40	0
352	1	89.15	574.35	0
353	1	84.80	371.90	1
354	1	41.90	840.10	1
355	1	80.25	846.00	1
356	1	54.10	889.00	0
357	1	105.25	6823.40	0
358	0	30.75	805.10	1
359	0	97.10	4016.75	0
360	0	20.20	83.75	0
361	1	98.80	3959.15	0
362	0	50.30	2878.55	0
363	1	20.55	945.70	0
364	1	75.90	1373.05	0
365	0	96.50	492.55	1
366	1	59.95	1406.00	0
367	0	19.15	19.15	0
368	1	98.65	6962.85	0
369	1	112.60	8126.65	0
370	0	20.60	690.25	0
371	1	85.65	181.50	1
372	0	35.75	830.80	0

373	1	99.75	5608.40	0
374	1	96.10	3646.80	0
375	0	85.10	3662.25	0
376	0	25.35	25.35	0
377	1	104.95	2566.50	1
378	0	89.65	5308.70	0
379	0	86.75	1410.25	0
380	1	86.20	3339.05	0
381	0	50.65	50.65	1
382	1	64.80	4732.35	0
383	1	90.85	90.85	1
384	1	108.10	5067.45	0
385	0	19.95	214.75	1
386	1	85.45	4874.70	1
387	1	54.75	2348.45	0
388	1	90.40	4063.00	0
389	0	44.00	44.00	0
390	1	95.60	2595.25	0
391	1	84.80	2309.55	0
392	1	44.30	89.30	0
393	0	19.90	367.55	0
394	1	95.05	3944.50	0
395	1	90.05	5965.95	0
396	1	109.90	3694.70	0
397	1	73.95	2524.45	1
398	1	54.60	1803.70	0
399	0	20.05	415.10	0
400	0	19.75	624.15	0
401	0	20.05	237.70	0
402	1	99.45	7007.60	1
403	0	55.90	3848.80	0
404	1	19.70	419.40	0
405	1	19.80	1468.75	0
406	1	95.40	5812.00	0
407	1	93.95	2861.45	0
408	1	19.90	19.90	1
409	1	19.60	19.60	1
410	1	81.35	233.70	1
411	1	24.45	1066.15	0
412	1	74.95	2149.05	0
413	1	87.35	4473.00	0
414	1	70.65	3545.05	0
415	0	73.25	1195.75	0
416	1	98.70	6858.90	0
417	1	24.80	1024.70	0
418	0	83.30	1845.90	1
419	1	75.30	75.30	1
420	1	24.30	132.25	0

421	1	69.85	515.45	0
422	0	100.55	2830.45	0
423	0	25.70	1110.50	0
424	0	40.70	449.30	0
425	0	51.65	2838.55	0
426	1	105.10	5376.40	0
427	0	85.95	858.60	0
428	1	75.60	1395.05	0
429	0	58.25	3975.70	0
430	1	19.40	1182.55	1
431	1	65.20	4784.45	0
432	0	53.45	119.50	0
433	1	45.40	518.90	1
434	1	19.75	899.45	0
435	1	44.45	1183.80	0
436	0	20.85	720.05	0
437	1	114.05	8468.20	0
438	1	89.85	3161.20	0
439	0	55.05	55.05	0
440	1	112.95	1882.55	0
441	0	101.55	5070.40	0
442	1	114.65	6049.50	0
443	0	64.80	1166.70	0
444	0	80.40	2937.65	0
445	1	105.90	6396.45	1
446	0	69.55	69.55	1
447	1	25.05	1270.25	0
448	1	94.75	759.55	0
449	0	105.50	7611.55	0
450	0	24.70	1642.75	0
451	1	69.75	1545.40	0
452	1	60.20	3582.40	0
453	1	81.05	2227.10	1
454	0	24.40	1417.90	0
455	1	104.15	2494.65	0
456	0	92.90	2768.35	0
457	0	80.80	2369.30	0
458	0	20.00	38.00	0
459	1	75.10	75.10	0
460	0	19.65	100.90	0
461	1	69.45	1614.05	0
462	0	101.15	385.90	1
463	1	99.80	673.25	1
464	1	116.05	8404.90	0
465	1	40.05	2799.75	0
466	0	102.10	6538.45	0
467	1	89.70	6588.95	0
468	0	19.90	868.10	0

469	0	55.95	734.35	1
470	0	20.65	330.60	0
471	1	55.00	55.00	1
472	1	70.05	564.40	0
473	0	53.60	1315.35	0
474	1	74.70	74.70	1
475	1	80.25	1861.50	1
476	1	76.05	2747.20	0
477	1	75.70	554.05	0
478	1	96.10	453.40	1
479	0	69.00	994.80	1
480	0	19.65	225.75	0
481	1	45.30	2145.00	1
482	1	81.45	1671.60	0
483	1	108.50	8003.80	0
484	1	83.55	680.05	1
485	1	84.50	6130.85	0
486	1	100.15	1415.00	0
487	1	88.60	6201.95	0
488	1	52.55	NaN	0
489	1	74.35	74.35	1
490	1	104.80	6597.25	0
491	1	59.00	114.15	0
492	1	74.40	139.40	1
493	0	64.05	3902.60	0
494	0	20.40	20.40	0
495	1	43.75	903.60	1
496	0	60.90	1785.65	0
497	0	19.80	1397.65	0
498	0	28.45	131.05	1
499	1	99.70	1238.45	1
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6543	0	54.75	3425.35	0
6544	1	104.75	4323.45	1
6545	1	74.65	703.55	1
6546	1	51.15	1275.70	0
6547	1	41.95	2965.75	0
6548	0	54.35	1647.00	0
6549	1	56.25	56.25	1
6550	1	106.10	2249.95	1
6551	1	96.00	6109.75	0
6552	1	79.75	159.40	1
6553	1	61.45	3751.15	0
6554	0	68.65	68.65	1
6555	0	19.65	411.25	0
6556	0	19.00	105.50	0
6557	1	100.00	3320.60	0
6558	0	20.25	327.45	1

6559	1	98.70	5669.50	0
6560	0	19.80	465.45	0
6561	1	73.80	704.30	0
6562	1	100.20	1369.80	1
6563	1	74.90	1107.25	1
6564	0	20.05	95.55	0
6565	1	106.20	6375.20	0
6566	1	116.55	8152.30	0
6567	1	99.70	1566.75	0
6568	0	19.70	130.25	0
6569	0	19.50	162.15	0
6570	1	29.15	110.05	0
6571	0	55.00	1885.15	0
6572	1	90.80	6302.85	0
6573	0	51.00	2264.50	0
6574	1	90.10	816.80	0
6575	1	59.05	1253.50	0
6576	0	20.30	41.20	0
6577	0	72.95	5265.55	0
6578	0	73.55	693.30	0
6579	0	84.30	5997.10	0
6580	0	78.00	3824.20	0
6581	0	72.10	3886.05	0
6582	1	106.75	7283.25	0
6583	1	19.25	412.55	0
6584	0	20.55	1070.25	0
6585	0	20.00	817.95	0
6586	1	24.65	1171.30	0
6587	1	103.50	6548.65	0
6588	0	23.85	625.65	0
6589	0	25.80	1911.50	0
6590	1	70.85	70.85	1
6591	1	69.80	134.70	1
6592	0	59.45	1507.00	0
6593	1	54.55	2978.30	1
6594	1	20.05	299.30	0
6595	1	82.55	5832.65	0
6596	0	81.25	5567.55	0
6597	1	70.75	450.80	1
6598	1	74.30	4166.35	0
6599	0	94.10	1215.60	1
6600	0	29.70	91.70	1
6601	0	109.70	7898.45	0
6602	1	96.35	3915.40	0
6603	1	66.60	979.50	0
6604	1	44.50	90.05	0
6605	0	110.90	7432.05	1
6606	1	105.00	4026.40	1

6607	1	25.30	25.30	1
6608	1	55.15	1193.05	1
6609	1	20.10	20.10	1
6610	1	80.10	398.55	0
6611	0	69.05	1958.45	0
6612	1	69.90	69.90	1
6613	0	20.40	63.15	0
6614	0	19.70	1301.10	0
6615	1	50.10	484.05	0
6616	1	101.40	4528.00	1
6617	1	83.45	3887.85	0
6618	1	86.65	2208.75	0
6619	0	20.15	238.15	0
6620	1	80.80	80.80	1
6621	0	19.40	958.15	0
6622	0	62.05	118.30	1
6623	1	76.45	76.45	1
6624	1	60.05	3845.45	0
6625	1	91.30	1094.50	1
6626	1	95.75	573.75	1
6627	0	20.35	1267.00	0
6628	1	94.05	633.45	0
6629	1	84.10	6129.65	0
6630	1	78.75	1218.25	0
6631	0	55.55	1405.30	0
6632	0	62.65	2274.90	1
6633	1	74.50	74.50	1
6634	1	102.10	1068.85	1
6635	0	20.10	533.90	0
6636	0	70.30	676.15	0
6637	1	53.65	3804.40	0
6638	0	20.75	1118.80	0
6639	1	103.40	5236.40	0
6640	0	50.80	1386.80	0
6641	1	50.15	762.25	1
6642	1	79.00	1902.00	0
6643	1	74.60	239.05	0
6644	1	96.50	5673.70	0
6645	0	20.10	39.80	0
6646	0	19.40	997.75	0
6647	0	77.55	5574.35	0
6648	0	20.05	406.05	0
6649	0	19.85	138.85	0
6650	0	20.20	123.65	0
6651	0	67.45	1801.10	0
6652	1	18.55	689.00	0
6653	1	29.75	790.70	0
6654	1	86.50	582.50	1

6655	0	24.20	1618.20	0
6656	0	23.55	1173.35	0
6657	0	20.45	900.90	0
6658	1	81.45	2122.05	1
6659	0	92.30	6719.90	0
6660	1	69.15	69.15	1
6661	0	53.65	3784.00	0
6662	0	39.65	1798.65	0
6663	1	54.65	54.65	0
6664	1	104.80	3886.45	0
6665	0	29.30	1224.05	0
6666	0	83.85	2310.20	0
6667	1	79.55	723.40	1
6668	1	103.65	3988.50	0
6669	1	99.05	3554.60	0
6670	0	73.35	NaN	0
6671	1	100.05	6034.85	0
6672	0	20.35	531.60	0
6673	0	43.95	85.10	0
6674	0	23.50	173.00	0
6675	1	70.70	2511.95	0
6676	1	94.30	3893.60	0
6677	0	29.15	357.15	0
6678	0	20.85	467.50	0
6679	0	37.70	2288.70	0
6680	1	95.50	4627.85	1
6681	0	91.05	289.10	1
6682	1	92.45	6460.55	0
6683	0	44.15	1931.30	0
6684	1	36.05	402.60	0
6685	1	50.25	2221.55	0
6686	1	109.75	7758.90	0
6687	0	79.20	172.85	1
6688	0	20.30	224.50	0
6689	1	112.35	7388.45	0
6690	0	94.30	3460.95	0
6691	0	41.15	1700.90	0
6692	1	74.65	3090.65	0
6693	1	48.25	1293.80	0
6694	1	76.15	645.80	0
6695	0	71.10	5224.95	0
6696	0	96.55	500.10	0
6697	1	79.30	2427.10	0
6698	1	89.60	3488.15	0
6699	1	20.50	1035.70	0
6700	1	106.30	7565.35	0
6701	0	100.35	2799.00	0
6702	1	85.60	1601.50	0

6703	1	45.25	85.50	1
6704	1	106.15	6256.20	0
6705	1	51.10	1232.90	0
6706	0	19.90	19.90	0
6707	1	25.70	1937.40	0
6708	1	74.30	1096.25	1
6709	0	99.40	5059.75	0
6710	0	69.70	3023.65	0
6711	1	98.35	4889.20	0
6712	0	85.45	2289.90	0
6713	1	95.90	6503.20	0
6714	0	100.75	1313.25	0
6715	1	89.20	990.30	0
6716	1	74.10	228.00	1
6717	0	100.60	5746.15	1
6718	0	75.00	209.10	1
6719	0	25.75	1864.20	0
6720	1	84.10	5979.70	0
6721	0	79.30	3902.45	0
6722	1	107.05	7142.50	0
6723	0	20.05	902.00	0
6724	1	70.20	4481.00	1
6725	0	19.50	805.20	0
6726	0	70.75	154.85	1
6727	0	45.30	528.45	0
6728	0	115.15	8349.70	0
6729	1	72.95	4953.25	0
6730	0	19.65	332.65	0
6731	1	19.55	470.20	0
6732	1	89.55	2259.35	0
6733	0	50.35	1411.35	0
6734	0	50.25	593.75	1
6735	0	87.25	6328.70	0
6736	1	20.80	1411.90	0
6737	1	109.25	6841.40	0
6738	0	20.35	20.35	0
6739	1	55.90	238.50	0
6740	1	79.20	3233.85	1
6741	1	96.00	1062.10	1
6742	0	79.20	4016.30	0
6743	1	24.00	226.55	0
6744	0	101.35	7110.75	0
6745	1	100.10	5440.90	1
6746	0	56.50	235.10	1
6747	0	35.45	1958.95	0
6748	1	85.00	85.00	1
6749	0	79.40	5528.90	0
6750	1	35.20	1463.70	0

6751	0	19.65	1025.05	0
6752	0	49.85	552.10	0
6753	0	68.75	3815.40	0
6754	1	61.90	NaN	0
6755	0	79.90	3313.40	0
6756	1	89.75	1938.90	0
6757	0	59.30	3014.65	1
6758	1	19.40	460.25	0
6759	1	93.65	4839.15	0
6760	1	49.40	184.40	1
6761	1	19.90	19.90	0
6762	0	55.00	2010.55	1
6763	1	72.90	5139.65	0
6764	1	69.20	69.20	1
6765	1	25.60	1673.40	0
6766	0	19.75	309.35	0
6767	0	55.70	3171.60	0
6768	0	117.50	8670.10	0
6769	0	19.85	916.00	0
6770	1	78.90	299.75	0
6771	1	20.65	702.05	0
6772	1	62.30	2354.80	1
6773	1	92.50	3473.40	1
6774	0	19.65	19.65	0
6775	1	79.75	4438.20	0
6776	1	79.95	4819.75	0
6777	1	29.90	92.25	0
6778	1	19.75	1567.00	0
6779	1	45.00	1242.45	0
6780	0	44.80	559.20	0
6781	0	69.65	220.10	1
6782	0	51.10	531.15	0
6783	0	53.15	1183.20	0
6784	0	24.70	465.85	0
6785	1	111.60	6876.05	1
6786	0	48.55	501.00	1
6787	1	109.95	3782.40	0
6788	0	20.80	460.20	0
6789	1	20.20	20.20	1
6790	1	25.60	1790.35	0
6791	1	39.65	733.35	1
6792	0	24.90	1334.00	1
6793	1	108.40	7767.25	0
6794	0	19.55	876.15	0
6795	1	85.10	4600.95	0
6796	0	56.70	113.55	1
6797	1	69.05	1793.25	0
6798	1	70.15	886.70	0

6799	1	111.15	7737.55	0
6800	0	105.95	1348.90	1
6801	1	89.35	1686.85	0
6802	1	89.10	1879.25	0
6803	1	91.25	4013.80	0
6804	1	90.35	434.50	0
6805	1	105.55	7195.35	0
6806	0	19.10	780.10	0
6807	1	20.40	107.60	0
6808	1	100.45	3801.70	0
6809	0	74.95	308.70	1
6810	1	29.70	438.25	1
6811	1	50.35	50.35	1
6812	1	85.70	3778.10	0
6813	0	47.85	3147.50	1
6814	0	94.00	5438.95	0
6815	0	69.85	5102.35	0
6816	1	70.30	70.30	1
6817	0	25.85	1872.20	0
6818	0	71.10	213.35	0
6819	1	98.80	5617.75	1
6820	0	93.35	5386.50	0
6821	1	99.85	1776.95	1
6822	1	80.30	2483.05	1
6823	1	50.55	235.65	0
6824	1	80.45	5224.35	1
6825	1	81.30	2272.80	0
6826	1	20.70	83.75	0
6827	1	79.05	4663.40	0
6828	0	19.05	201.70	0
6829	0	19.60	125.00	0
6830	1	20.20	684.40	0
6831	1	86.80	620.35	1
6832	0	20.90	1146.05	0
6833	1	103.60	1806.35	0
6834	1	38.80	603.00	0
6835	1	88.40	5798.30	0
6836	1	84.20	519.15	1
6837	1	79.70	497.60	0
6838	1	99.00	1301.70	1
6839	1	100.75	1129.75	1
6840	1	19.30	19.30	0
6841	1	55.75	266.95	0
6842	1	19.95	257.00	0
6843	0	91.75	865.80	1
6844	0	89.65	2623.65	0
6845	1	45.85	45.85	0
6846	1	79.55	79.55	1

6847	0	55.95	1082.80	0
6848	0	69.00	147.80	0
6849	1	83.55	2570.20	0
6850	0	65.70	4378.90	0
6851	1	94.90	3616.25	0
6852	1	61.90	2924.05	0
6853	0	111.10	6014.85	1
6854	0	20.00	32.70	0
6855	1	67.70	2882.25	0
6856	0	25.15	1509.90	0
6857	1	92.85	5305.05	0
6858	1	89.10	2368.40	1
6859	0	111.30	7985.90	0
6860	1	101.90	3545.35	1
6861	1	91.65	1301.00	1
6862	1	88.85	372.45	1
6863	1	60.60	2985.25	0
6864	0	25.30	77.75	1
6865	0	65.50	564.35	0
6866	1	95.45	95.45	1
6867	0	19.95	1311.75	0
6868	1	91.10	1135.70	1
6869	1	54.15	2319.80	1
6870	1	74.60	3720.35	0
6871	0	94.60	5025.80	0
6872	1	81.15	5224.50	0
6873	1	89.05	6185.80	0
6874	1	49.20	1498.55	0
6875	0	19.45	1208.60	0
6876	1	104.30	6613.65	0
6877	0	69.70	69.70	1
6878	1	89.50	573.30	1
6879	1	86.05	1818.90	0
6880	0	25.20	1787.35	0
6881	1	35.15	1051.05	0
6882	1	99.65	7181.25	0
6883	1	105.35	3688.60	0
6884	1	35.15	99.75	1
6885	1	73.75	871.40	1
6886	0	101.35	780.50	1
6887	0	24.30	821.60	0
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6890	1	61.10	3357.90	0
6891	1	29.05	129.60	0
6892	1	99.70	4977.20	0
6893	0	55.90	365.35	1
6894	1	105.90	334.65	1

6895	0	46.00	2424.05	0
6896	0	43.95	43.95	1
6897	1	80.40	4981.15	0
6898	1	100.05	2090.25	0
6899	1	45.10	45.10	1
6900	1	94.00	4905.75	0
6901	1	68.95	2038.70	0
6902	1	68.45	4014.00	0
6903	1	69.00	2441.70	0
6904	1	43.85	2751.00	0
6905	1	44.50	1307.80	0
6906	1	18.70	383.65	0
6907	0	70.25	2868.05	1
6908	0	55.35	449.75	1
6909	1	53.55	53.55	0
6910	1	114.60	7882.50	0
6911	1	20.10	1087.70	0
6912	1	85.50	791.70	0
6913	1	108.75	7493.05	0
6914	1	103.00	4414.30	1
6915	1	97.85	6841.30	0
6916	0	19.55	819.95	0
6917	1	84.05	6052.25	0
6918	1	103.75	3361.05	1
6919	0	89.40	4869.50	0
6920	0	19.70	509.30	0
6921	1	79.85	4308.25	0
6922	0	74.45	221.10	0
6923	0	74.10	3833.95	0
6924	1	69.35	69.35	1
6925	0	18.80	294.95	0
6926	1	73.85	4092.85	1
6927	0	64.40	316.90	0
6928	1	55.80	2651.20	0
6929	0	20.05	471.70	0
6930	1	75.15	216.75	1
6931	0	99.15	5720.95	0
6932	1	56.75	503.25	0
6933	1	69.60	69.60	1
6934	1	104.15	7365.30	0
6935	1	110.80	7245.90	0
6936	1	80.15	385.00	1
6937	1	35.75	961.40	0
6938	1	69.90	4615.90	0
6939	1	89.20	3251.30	0
6940	0	55.65	3880.05	0
6941	1	50.70	3088.75	0
6942	1	20.00	1396.00	0

6943	0	30.50	30.50	1
6944	1	19.10	53.05	0
6945	0	98.30	6859.50	1
6946	0	45.55	2108.35	0
6947	1	101.05	6770.50	0
6948	1	103.70	4730.60	0
6949	1	36.25	1151.05	0
6950	1	49.40	232.55	0
6951	1	19.90	1022.60	0
6952	1	107.40	5121.30	1
6953	1	82.00	1127.20	1
6954	1	19.80	309.40	0
6955	1	45.05	523.10	0
6956	1	64.55	4250.10	0
6957	0	86.25	770.50	0
6958	1	19.75	246.70	0
6959	1	89.10	3342.00	0
6960	1	95.55	3930.60	0
6961	1	75.40	1747.85	1
6962	1	101.25	2754.45	1
6963	1	102.60	897.75	0
6964	1	56.30	2780.60	0
6965	1	94.20	5895.45	0
6966	1	43.05	2208.05	0
6967	1	89.50	2196.15	1
6968	1	74.40	1692.60	1
6969	0	20.50	20.50	1
6970	1	74.35	265.35	1
6971	0	99.75	1836.25	1
6972	1	111.95	6418.90	1
6973	1	94.00	4871.45	0
6974	1	98.85	4947.55	0
6975	0	64.35	1558.65	0
6976	1	72.00	4284.20	0
6977	1	49.70	1218.25	0
6978	0	80.70	5617.95	0
6979	0	24.20	24.20	0
6980	1	39.00	679.85	1
6981	1	65.45	554.45	0
6982	1	74.35	5237.40	0
6983	0	83.20	2032.30	0
6984	0	25.00	789.20	0
6985	1	40.20	1525.35	0
6986	1	94.10	2804.45	1
6987	1	108.35	3726.15	0
6988	1	69.50	1652.10	0
6989	0	76.00	1588.75	0
6990	1	93.60	3366.05	0

6991	0	95.65	778.10	1
6992	0	100.55	7113.75	0
6993	1	88.05	4367.35	1
6994	1	24.45	993.15	0
6995	0	89.55	5012.35	0
6996	1	66.50	2728.60	1
6997	1	76.10	2093.40	0
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6999	1	35.45	106.85	1
7000	0	20.55	1343.40	0
7001	1	49.90	130.10	1
7002	1	105.40	6794.75	0
7003	0	35.75	1022.50	0
7004	1	95.10	3691.20	0
7005	0	19.30	486.20	0
7006	1	104.50	4036.85	1
7007	1	63.10	4685.55	0
7008	1	75.05	256.25	1
7009	1	81.00	1917.10	1
7010	1	74.45	74.45	1
7011	1	60.40	272.15	1
7012	1	84.95	5150.55	0
7013	1	93.40	3756.40	0
7014	1	89.20	3645.75	0
7015	1	85.20	2874.45	0
7016	0	49.95	49.95	0
7017	0	20.65	1020.75	0
7018	1	70.65	70.65	1
7019	0	20.15	826.00	0
7020	1	19.20	239.00	0
7021	1	59.80	727.80	1
7022	1	104.95	7544.30	0
7023	1	103.50	6479.40	0
7024	1	84.80	3626.35	0
7025	1	95.05	1679.40	0
7026	1	44.20	403.35	1
7027	0	73.35	931.55	0
7028	0	64.10	4326.25	0
7029	1	44.40	263.05	0
7030	1	20.05	39.25	0
7031	0	60.00	3316.10	0
7032	1	75.75	75.75	1
7033	1	69.50	2625.25	0
7034	1	102.95	6886.25	1
7035	1	78.70	1495.10	0
7036	0	60.65	743.30	0
7037	1	21.15	1419.40	0
7038	1	84.80	1990.50	0

7039	1	103.20	7362.90	0
7040	1	29.60	346.45	0
7041	1	74.40	306.60	1
7042	1	105.65	6844.50	0

	payment_type	automatic_payment
0	Electronic check	0
1	Mailed check	0
2	Mailed check	0
3	Bank transfer	1
4	Electronic check	0
5	Electronic check	0
6	Credit card	1
7	Mailed check	0
8	Electronic check	0
9	Bank transfer	1
10	Mailed check	0
11	Credit card	1
12	Credit card	1
13	Bank transfer	1
14	Electronic check	0
15	Credit card	1
16	Mailed check	0
17	Bank transfer	1
18	Credit card	1
19	Electronic check	0
20	Electronic check	0
21	Bank transfer	1
22	Mailed check	0
23	Credit card	1
24	Credit card	1
25	Bank transfer	1
26	Electronic check	0
27	Electronic check	0
28	Credit card	1
29	Mailed check	0
30	Credit card	1
31	Credit card	1
32	Mailed check	0
33	Bank transfer	1
34	Bank transfer	1
35	Bank transfer	1
36	Electronic check	0
37	Credit card	1
38	Electronic check	0
39	Bank transfer	1
40	Mailed check	0
41	Credit card	1

42	Mailed check	0
43	Credit card	1
44	Electronic check	0
45	Electronic check	0
46	Mailed check	0
47	Electronic check	0
48	Credit card	1
49	Credit card	1
50	Electronic check	0
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52	Credit card	1
53	Credit card	1
54	Credit card	1
55	Electronic check	0
56	Credit card	1
57	Electronic check	0
58	Credit card	1
59	Credit card	1
60	Electronic check	0
61	Bank transfer	1
62	Bank transfer	1
63	Credit card	1
64	Electronic check	0
65	Electronic check	0
66	Electronic check	0
67	Mailed check	0
68	Bank transfer	1
69	Mailed check	0
70	Mailed check	0
71	Electronic check	0
72	Bank transfer	1
73	Bank transfer	1
74	Bank transfer	1
75	Electronic check	0
76	Credit card	1
77	Mailed check	0
78	Electronic check	0
79	Credit card	1
80	Electronic check	0
81	Electronic check	0
82	Bank transfer	1
83	Bank transfer	1
84	Bank transfer	1
85	Credit card	1
86	Bank transfer	1
87	Bank transfer	1
88	Mailed check	0
89	Mailed check	0

90	Bank transfer	1
91	Electronic check	0
92	Mailed check	0
93	Credit card	1
94	Bank transfer	1
95	Electronic check	0
96	Credit card	1
97	Mailed check	0
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99	Electronic check	0
100	Mailed check	0
101	Electronic check	0
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103	Bank transfer	1
104	Bank transfer	1
105	Mailed check	0
106	Electronic check	0
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109	Credit card	1
110	Electronic check	0
111	Credit card	1
112	Electronic check	0
113	Electronic check	0
114	Electronic check	0
115	Electronic check	0
116	Bank transfer	1
117	Electronic check	0
118	Mailed check	0
119	Credit card	1
120	Credit card	1
121	Mailed check	0
122	Electronic check	0
123	Mailed check	0
124	Mailed check	0
125	Electronic check	0
126	Electronic check	0
127	Bank transfer	1
128	Mailed check	0
129	Electronic check	0
130	Electronic check	0
131	Credit card	1
132	Bank transfer	1
133	Electronic check	0
134	Electronic check	0
135	Credit card	1
136	Bank transfer	1
137	Mailed check	0

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141	Electronic check	0
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179	Credit card	1
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183	Credit card	1
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186	Mailed check	0
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189	Credit card	1
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232	Mailed check	0
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237	Electronic check	0
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239	Mailed check	0
240	Bank transfer	1
241	Bank transfer	1
242	Credit card	1
243	Electronic check	0
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264	Mailed check	0
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282	Mailed check	0
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424	Bank transfer	1
425	Bank transfer	1

426	Bank transfer	1
427	Electronic check	0
428	Bank transfer	1
429	Bank transfer	1
430	Mailed check	0
431	Credit card	1
432	Electronic check	0
433	Bank transfer	1
434	Electronic check	0
435	Credit card	1
436	Bank transfer	1
437	Credit card	1
438	Bank transfer	1
439	Mailed check	0
440	Electronic check	0
441	Credit card	1
442	Mailed check	0
443	Electronic check	0
444	Electronic check	0
445	Electronic check	0
446	Mailed check	0
447	Bank transfer	1
448	Electronic check	0
449	Bank transfer	1
450	Mailed check	0
451	Mailed check	0
452	Bank transfer	1
453	Electronic check	0
454	Mailed check	0
455	Electronic check	0
456	Bank transfer	1
457	Bank transfer	1
458	Mailed check	0
459	Electronic check	0
460	Mailed check	0
461	Bank transfer	1
462	Electronic check	0
463	Electronic check	0
464	Bank transfer	1
465	Mailed check	0
466	Electronic check	0
467	Electronic check	0
468	Mailed check	0
469	Electronic check	0
470	Mailed check	0
471	Electronic check	0
472	Mailed check	0
473	Mailed check	0

474	Electronic check	0
475	Electronic check	0
476	Electronic check	0
477	Electronic check	0
478	Electronic check	0
479	Bank transfer	1
480	Mailed check	0
481	Bank transfer	1
482	Electronic check	0
483	Bank transfer	1
484	Electronic check	0
485	Credit card	1
486	Electronic check	0
487	Bank transfer	1
488	Bank transfer	1
489	Electronic check	0
490	Bank transfer	1
491	Electronic check	0
492	Electronic check	0
493	Bank transfer	1
494	Mailed check	0
495	Bank transfer	1
496	Mailed check	0
497	Bank transfer	1
498	Electronic check	0
499	Bank transfer	1
...
6543	Credit card	1
6544	Bank transfer	1
6545	Electronic check	0
6546	Electronic check	0
6547	Electronic check	0
6548	Mailed check	0
6549	Electronic check	0
6550	Electronic check	0
6551	Electronic check	0
6552	Bank transfer	1
6553	Bank transfer	1
6554	Electronic check	0
6555	Mailed check	0
6556	Credit card	1
6557	Electronic check	0
6558	Bank transfer	1
6559	Electronic check	0
6560	Mailed check	0
6561	Electronic check	0
6562	Electronic check	0
6563	Bank transfer	1

6564	Credit card	1
6565	Electronic check	0
6566	Credit card	1
6567	Electronic check	0
6568	Mailed check	0
6569	Mailed check	0
6570	Mailed check	0
6571	Mailed check	0
6572	Credit card	1
6573	Bank transfer	1
6574	Electronic check	0
6575	Mailed check	0
6576	Mailed check	0
6577	Bank transfer	1
6578	Credit card	1
6579	Credit card	1
6580	Credit card	1
6581	Mailed check	0
6582	Credit card	1
6583	Mailed check	0
6584	Credit card	1
6585	Mailed check	0
6586	Credit card	1
6587	Bank transfer	1
6588	Mailed check	0
6589	Credit card	1
6590	Electronic check	0
6591	Credit card	1
6592	Credit card	1
6593	Bank transfer	1
6594	Electronic check	0
6595	Electronic check	0
6596	Electronic check	0
6597	Credit card	1
6598	Credit card	1
6599	Electronic check	0
6600	Credit card	1
6601	Credit card	1
6602	Credit card	1
6603	Credit card	1
6604	Electronic check	0
6605	Credit card	1
6606	Electronic check	0
6607	Electronic check	0
6608	Credit card	1
6609	Mailed check	0
6610	Mailed check	0
6611	Bank transfer	1

6612	Mailed check	0
6613	Mailed check	0
6614	Credit card	1
6615	Electronic check	0
6616	Electronic check	0
6617	Credit card	1
6618	Credit card	1
6619	Bank transfer	1
6620	Electronic check	0
6621	Credit card	1
6622	Bank transfer	1
6623	Electronic check	0
6624	Bank transfer	1
6625	Electronic check	0
6626	Electronic check	0
6627	Mailed check	0
6628	Mailed check	0
6629	Credit card	1
6630	Electronic check	0
6631	Credit card	1
6632	Electronic check	0
6633	Electronic check	0
6634	Credit card	1
6635	Mailed check	0
6636	Electronic check	0
6637	Credit card	1
6638	Mailed check	0
6639	Bank transfer	1
6640	Mailed check	0
6641	Electronic check	0
6642	Mailed check	0
6643	Bank transfer	1
6644	Bank transfer	1
6645	Mailed check	0
6646	Mailed check	0
6647	Credit card	1
6648	Mailed check	0
6649	Credit card	1
6650	Mailed check	0
6651	Mailed check	0
6652	Credit card	1
6653	Mailed check	0
6654	Electronic check	0
6655	Mailed check	0
6656	Mailed check	0
6657	Bank transfer	1
6658	Electronic check	0
6659	Credit card	1

6660	Electronic check	0
6661	Credit card	1
6662	Credit card	1
6663	Electronic check	0
6664	Bank transfer	1
6665	Credit card	1
6666	Electronic check	0
6667	Electronic check	0
6668	Electronic check	0
6669	Electronic check	0
6670	Mailed check	0
6671	Mailed check	0
6672	Credit card	1
6673	Electronic check	0
6674	Mailed check	0
6675	Mailed check	0
6676	Bank transfer	1
6677	Electronic check	0
6678	Credit card	1
6679	Bank transfer	1
6680	Mailed check	0
6681	Electronic check	0
6682	Mailed check	0
6683	Electronic check	0
6684	Mailed check	0
6685	Credit card	1
6686	Credit card	1
6687	Electronic check	0
6688	Bank transfer	1
6689	Credit card	1
6690	Mailed check	0
6691	Bank transfer	1
6692	Bank transfer	1
6693	Electronic check	0
6694	Credit card	1
6695	Mailed check	0
6696	Electronic check	0
6697	Credit card	1
6698	Credit card	1
6699	Mailed check	0
6700	Bank transfer	1
6701	Bank transfer	1
6702	Electronic check	0
6703	Electronic check	0
6704	Electronic check	0
6705	Electronic check	0
6706	Mailed check	0
6707	Credit card	1

6708	Electronic check	0
6709	Electronic check	0
6710	Bank transfer	1
6711	Electronic check	0
6712	Electronic check	0
6713	Electronic check	0
6714	Electronic check	0
6715	Electronic check	0
6716	Credit card	1
6717	Electronic check	0
6718	Mailed check	0
6719	Credit card	1
6720	Electronic check	0
6721	Bank transfer	1
6722	Credit card	1
6723	Bank transfer	1
6724	Credit card	1
6725	Bank transfer	1
6726	Electronic check	0
6727	Electronic check	0
6728	Electronic check	0
6729	Bank transfer	1
6730	Mailed check	0
6731	Bank transfer	1
6732	Electronic check	0
6733	Mailed check	0
6734	Bank transfer	1
6735	Credit card	1
6736	Mailed check	0
6737	Bank transfer	1
6738	Mailed check	0
6739	Electronic check	0
6740	Credit card	1
6741	Electronic check	0
6742	Electronic check	0
6743	Electronic check	0
6744	Bank transfer	1
6745	Electronic check	0
6746	Mailed check	0
6747	Mailed check	0
6748	Electronic check	0
6749	Bank transfer	1
6750	Credit card	1
6751	Mailed check	0
6752	Mailed check	0
6753	Bank transfer	1
6754	Bank transfer	1
6755	Electronic check	0

6756	Bank transfer	1
6757	Electronic check	0
6758	Credit card	1
6759	Bank transfer	1
6760	Electronic check	0
6761	Mailed check	0
6762	Mailed check	0
6763	Bank transfer	1
6764	Electronic check	0
6765	Bank transfer	1
6766	Mailed check	0
6767	Electronic check	0
6768	Credit card	1
6769	Credit card	1
6770	Mailed check	0
6771	Electronic check	0
6772	Mailed check	0
6773	Electronic check	0
6774	Mailed check	0
6775	Bank transfer	1
6776	Credit card	1
6777	Electronic check	0
6778	Mailed check	0
6779	Mailed check	0
6780	Bank transfer	1
6781	Electronic check	0
6782	Electronic check	0
6783	Mailed check	0
6784	Bank transfer	1
6785	Credit card	1
6786	Credit card	1
6787	Electronic check	0
6788	Mailed check	0
6789	Mailed check	0
6790	Bank transfer	1
6791	Electronic check	0
6792	Electronic check	0
6793	Credit card	1
6794	Mailed check	0
6795	Electronic check	0
6796	Mailed check	0
6797	Mailed check	0
6798	Mailed check	0
6799	Mailed check	0
6800	Mailed check	0
6801	Bank transfer	1
6802	Bank transfer	1
6803	Credit card	1

6804	Mailed check	0
6805	Bank transfer	1
6806	Mailed check	0
6807	Credit card	1
6808	Electronic check	0
6809	Electronic check	0
6810	Electronic check	0
6811	Electronic check	0
6812	Bank transfer	1
6813	Electronic check	0
6814	Credit card	1
6815	Bank transfer	1
6816	Electronic check	0
6817	Credit card	1
6818	Mailed check	0
6819	Electronic check	0
6820	Electronic check	0
6821	Bank transfer	1
6822	Credit card	1
6823	Bank transfer	1
6824	Credit card	1
6825	Electronic check	0
6826	Credit card	1
6827	Credit card	1
6828	Mailed check	0
6829	Credit card	1
6830	Mailed check	0
6831	Electronic check	0
6832	Mailed check	0
6833	Credit card	1
6834	Mailed check	0
6835	Bank transfer	1
6836	Electronic check	0
6837	Electronic check	0
6838	Mailed check	0
6839	Electronic check	0
6840	Mailed check	0
6841	Mailed check	0
6842	Mailed check	0
6843	Bank transfer	1
6844	Mailed check	0
6845	Mailed check	0
6846	Mailed check	0
6847	Mailed check	0
6848	Credit card	1
6849	Bank transfer	1
6850	Bank transfer	1
6851	Bank transfer	1

6852	Mailed check	0
6853	Electronic check	0
6854	Mailed check	0
6855	Mailed check	0
6856	Credit card	1
6857	Electronic check	0
6858	Electronic check	0
6859	Mailed check	0
6860	Bank transfer	1
6861	Electronic check	0
6862	Electronic check	0
6863	Bank transfer	1
6864	Electronic check	0
6865	Mailed check	0
6866	Electronic check	0
6867	Bank transfer	1
6868	Electronic check	0
6869	Credit card	1
6870	Bank transfer	1
6871	Bank transfer	1
6872	Credit card	1
6873	Bank transfer	1
6874	Mailed check	0
6875	Credit card	1
6876	Electronic check	0
6877	Bank transfer	1
6878	Electronic check	0
6879	Electronic check	0
6880	Bank transfer	1
6881	Electronic check	0
6882	Credit card	1
6883	Bank transfer	1
6884	Electronic check	0
6885	Credit card	1
6886	Electronic check	0
6887	Bank transfer	1
6888	Electronic check	0
6889	Mailed check	0
6890	Electronic check	0
6891	Electronic check	0
6892	Bank transfer	1
6893	Credit card	1
6894	Electronic check	0
6895	Credit card	1
6896	Mailed check	0
6897	Bank transfer	1
6898	Mailed check	0
6899	Bank transfer	1

6900	Bank transfer	1
6901	Credit card	1
6902	Credit card	1
6903	Electronic check	0
6904	Electronic check	0
6905	Electronic check	0
6906	Mailed check	0
6907	Bank transfer	1
6908	Electronic check	0
6909	Mailed check	0
6910	Electronic check	0
6911	Bank transfer	1
6912	Electronic check	0
6913	Bank transfer	1
6914	Electronic check	0
6915	Electronic check	0
6916	Bank transfer	1
6917	Bank transfer	1
6918	Electronic check	0
6919	Credit card	1
6920	Credit card	1
6921	Bank transfer	1
6922	Credit card	1
6923	Bank transfer	1
6924	Electronic check	0
6925	Mailed check	0
6926	Electronic check	0
6927	Credit card	1
6928	Credit card	1
6929	Credit card	1
6930	Credit card	1
6931	Bank transfer	1
6932	Bank transfer	1
6933	Electronic check	0
6934	Credit card	1
6935	Credit card	1
6936	Electronic check	0
6937	Mailed check	0
6938	Bank transfer	1
6939	Electronic check	0
6940	Credit card	1
6941	Bank transfer	1
6942	Credit card	1
6943	Bank transfer	1
6944	Mailed check	0
6945	Bank transfer	1
6946	Credit card	1
6947	Credit card	1

6948	Electronic check	0
6949	Mailed check	0
6950	Mailed check	0
6951	Credit card	1
6952	Bank transfer	1
6953	Electronic check	0
6954	Mailed check	0
6955	Electronic check	0
6956	Bank transfer	1
6957	Electronic check	0
6958	Bank transfer	1
6959	Mailed check	0
6960	Electronic check	0
6961	Credit card	1
6962	Electronic check	0
6963	Credit card	1
6964	Credit card	1
6965	Credit card	1
6966	Bank transfer	1
6967	Electronic check	0
6968	Bank transfer	1
6969	Mailed check	0
6970	Electronic check	0
6971	Bank transfer	1
6972	Electronic check	0
6973	Electronic check	0
6974	Electronic check	0
6975	Electronic check	0
6976	Credit card	1
6977	Mailed check	0
6978	Electronic check	0
6979	Mailed check	0
6980	Mailed check	0
6981	Electronic check	0
6982	Electronic check	0
6983	Bank transfer	1
6984	Credit card	1
6985	Electronic check	0
6986	Credit card	1
6987	Electronic check	0
6988	Credit card	1
6989	Bank transfer	1
6990	Electronic check	0
6991	Bank transfer	1
6992	Bank transfer	1
6993	Electronic check	0
6994	Bank transfer	1
6995	Mailed check	0

6996	Bank transfer	1
6997	Electronic check	0
6998	Electronic check	0
6999	Mailed check	0
7000	Electronic check	0
7001	Mailed check	0
7002	Bank transfer	1
7003	Electronic check	0
7004	Credit card	1
7005	Credit card	1
7006	Credit card	1
7007	Bank transfer	1
7008	Credit card	1
7009	Electronic check	0
7010	Electronic check	0
7011	Mailed check	0
7012	Electronic check	0
7013	Bank transfer	1
7014	Electronic check	0
7015	Credit card	1
7016	Electronic check	0
7017	Bank transfer	1
7018	Mailed check	0
7019	Mailed check	0
7020	Electronic check	0
7021	Electronic check	0
7022	Electronic check	0
7023	Electronic check	0
7024	Credit card	1
7025	Bank transfer	1
7026	Bank transfer	1
7027	Mailed check	0
7028	Bank transfer	1
7029	Electronic check	0
7030	Mailed check	0
7031	Credit card	1
7032	Electronic check	0
7033	Credit card	1
7034	Credit card	1
7035	Bank transfer	1
7036	Electronic check	0
7037	Bank transfer	1
7038	Mailed check	0
7039	Credit card	1
7040	Electronic check	0
7041	Mailed check	0
7042	Bank transfer	1

[7043 rows x 22 columns]

```
In [20]: # new data frame is split from the internet_service column
new = df["internet_service"].str.split("DSL", n = 1, expand = True)

#use the dsl values to form a new column
df["dsl_internet"] = new[1]

#change the format of the column to 1s for DSL and 0s for all other types
df['dsl_internet'] = df['dsl_internet'].eq('').mul(1)

#replace the values in the internet_service column to show 1s for any internet service
df.internet_service.replace(('DSL', 'Fiber optic', 'No'), (1,1,0), inplace=True)

In [21]: df
```

```
Out[21]:
```

	customer_id	gender	senior_citizen	partner	dependents	tenure	\
0	7590-VHVEG	1	0	1	0	1	
1	5575-GNVDE	0	0	0	0	34	
2	3668-QPYBK	0	0	0	0	2	
3	7795-CFOCW	0	0	0	0	45	
4	9237-HQITU	1	0	0	0	2	
5	9305-CDSKC	1	0	0	0	8	
6	1452-KIOVK	0	0	0	1	22	
7	6713-OKOMC	1	0	0	0	10	
8	7892-POOKP	1	0	1	0	28	
9	6388-TABGU	0	0	0	1	62	
10	9763-GRSKD	0	0	1	1	13	
11	7469-LKBCI	0	0	0	0	16	
12	8091-TTVAX	0	0	1	0	58	
13	0280-XJGEX	0	0	0	0	49	
14	5129-JLPIS	0	0	0	0	25	
15	3655-SNQYZ	1	0	1	1	69	
16	8191-XWSZG	1	0	0	0	52	
17	9959-WOFKT	0	0	0	1	71	
18	4190-MFLUW	1	0	1	1	10	
19	4183-MYFRB	1	0	0	0	21	
20	8779-QRDMV	0	1	0	0	1	
21	1680-VDCWW	0	0	1	0	12	
22	1066-JKSGK	0	0	0	0	1	
23	3638-WEABW	1	0	1	0	58	
24	6322-HRPFA	0	0	1	1	49	
25	6865-JZNKO	1	0	0	0	30	
26	6467-CHFZW	0	0	1	1	47	
27	8665-UTDHz	0	0	1	1	1	
28	5248-YGIJN	0	0	1	0	72	
29	8773-HHUOZ	1	0	0	1	17	
30	3841-NFECX	1	1	1	0	71	

31	4929-XIHWV	0	1	1	0	2
32	6827-IEAUQ	1	0	1	1	27
33	7310-EGVHZ	0	0	0	0	1
34	3413-BMNZE	0	1	0	0	1
35	6234-RAAPL	1	0	1	1	72
36	6047-YHPVI	0	0	0	0	5
37	6572-ADKRS	1	0	0	0	46
38	5380-WJKOV	0	0	0	0	34
39	8168-UQWWF	1	0	0	0	11
40	8865-TNMNX	0	0	1	1	10
41	9489-DEDVP	1	0	1	1	70
42	9867-JCZSP	1	0	1	1	17
43	4671-VJLCL	1	0	0	0	63
44	4080-IIARD	1	0	1	0	13
45	3714-NTNFO	1	0	0	0	49
46	5948-UJZLF	0	0	0	0	2
47	7760-OYPDY	1	0	0	0	2
48	7639-LIAYI	0	0	0	0	52
49	2954-PIBKO	1	0	1	1	69
50	8012-SOUDQ	1	1	0	0	43
51	9420-LOJKX	1	0	0	0	15
52	6575-SUVOI	1	1	1	0	25
53	7495-OOKFY	1	1	1	0	8
54	4667-QONEA	1	1	1	1	60
55	1658-BYGOY	0	1	0	0	18
56	8769-KKTPH	1	0	1	1	63
57	5067-XJQFU	0	1	1	1	66
58	3957-SQXML	1	0	1	1	34
59	5954-BDFSG	1	0	0	0	72
60	0434-CSFON	1	0	1	0	47
61	1215-FIGMP	0	0	0	0	60
62	0526-SXDJP	0	0	1	0	72
63	0557-ASKVU	1	0	1	1	18
64	5698-BQJOH	1	0	0	0	9
65	5122-CYFXA	1	0	0	0	3
66	8627-ZYGSZ	0	0	1	0	47
67	3410-YOQBQ	1	0	0	0	31
68	3170-NMYVV	1	0	1	1	50
69	7410-OIEDU	0	0	0	0	10
70	2273-QCKXA	0	0	0	0	1
71	0731-EBJQB	1	0	1	1	52
72	1891-QRQSA	0	1	1	1	64
73	8028-PNXHQ	0	0	1	1	62
74	5630-AHZIL	1	0	0	1	3
75	2673-CXQEU	1	1	0	0	56
76	6416-JNVRK	1	0	0	0	46
77	5590-ZSKRV	1	0	1	1	8
78	0191-ZHSKZ	0	1	0	0	30

79	3887-PBQAO	1	0	1	1	45
80	5919-TMRGD	1	0	0	1	1
81	8108-UXRQN	1	0	1	1	11
82	9191-MYQKX	1	0	1	0	7
83	9919-YLNNG	1	0	0	0	42
84	0318-ZOPWS	1	0	1	0	49
85	4445-ZJNMU	0	0	0	0	9
86	4808-YNLEU	1	0	1	0	35
87	1862-QRWPE	1	0	1	1	48
88	2796-NNUFI	1	0	1	1	46
89	3016-KSVCP	0	0	1	0	29
90	4767-HZZHQ	0	0	1	1	30
91	2424-WVHPL	0	1	0	0	1
92	7233-PAHHL	0	0	1	1	66
93	6067-NGCEU	1	0	0	0	65
94	9848-JQJTX	0	0	0	0	72
95	8637-XJIVR	1	0	0	0	12
96	9803-FTJCG	0	0	1	1	71
97	0278-YX00G	0	0	0	0	5
98	3212-KXOCR	0	0	0	0	52
99	4598-XLKNJ	1	1	1	0	25
100	6380-ARCEH	0	0	0	0	1
101	3679-XASPY	1	0	1	1	1
102	7123-WQUHX	0	0	0	0	38
103	5386-THSLQ	1	1	1	0	66
104	3192-NQECA	0	0	1	0	68
105	6180-YBIQI	0	0	0	0	5
106	6728-DKUCO	1	0	1	1	72
107	9750-BOOHV	1	0	0	0	32
108	8597-CWYHH	0	0	0	0	43
109	2848-YXSMW	0	0	1	1	72
110	0486-HECZI	0	0	1	0	55
111	4549-ZDQYY	1	0	0	0	52
112	5712-AHQNN	1	0	0	0	43
113	4846-WHAFZ	1	1	1	0	37
114	5256-SKJGO	1	0	1	1	64
115	3071-VBYP0	0	0	1	1	3
116	9560-BBZXK	1	0	0	0	36
117	5299-RULOA	1	0	1	1	10
118	8402-000HJ	1	0	0	0	41
119	9445-ZUEQE	0	0	1	1	27
120	1091-SOZGA	1	0	1	1	56
121	2928-HLDBA	1	0	0	0	6
122	0404-SWRVG	0	0	0	0	3
123	6497-TILVL	1	0	1	1	7
124	7219-TLZHO	1	0	1	1	4
125	4622-YNKIJ	0	0	0	0	33
126	4412-YLTKF	1	1	0	0	27

127	6734-PSBAW	0	0	1	0	72
128	3930-ZGWVE	0	0	0	0	1
129	2639-UGMAZ	0	1	0	0	71
130	2876-GZYZC	1	0	0	0	13
131	6207-WIOLX	1	0	1	1	25
132	8587-XYZSF	0	0	0	0	67
133	3091-FYHKI	0	0	0	0	1
134	2372-HWUHI	0	0	0	0	2
135	7799-LGRDP	1	0	0	0	43
136	7850-VWJUJ	1	0	0	0	23
137	3774-VBNXY	1	0	1	1	64
138	6217-KDYWC	0	0	0	1	57
139	0390-DCFDQ	1	1	1	0	1
140	3146-MSEGF	1	1	1	1	72
141	4080-OGPJL	1	0	0	0	8
142	1095-WGNGG	1	0	1	0	61
143	2636-SJDOU	0	0	0	0	64
144	1131-QQZEB	0	1	1	0	71
145	5716-EZXZN	1	0	1	1	65
146	6837-BJYDQ	0	0	0	0	3
147	2135-RXIHG	0	0	0	0	1
148	6440-DKQGE	0	0	0	1	30
149	3466-BYAVD	0	0	1	1	15
150	3780-YVMFA	1	0	1	1	8
151	3874-EQOEP	0	0	0	0	7
152	1679-JRFBR	1	0	1	1	70
153	9073-ZZIAJ	0	0	1	1	62
154	3077-RSNTJ	1	0	1	1	6
155	6551-GNYDG	1	0	1	1	14
156	9167-APMXZ	1	0	0	0	22
157	2749-CTKAJ	0	0	1	1	22
158	6371-NZYEG	0	0	1	1	16
159	7554-NEWDD	0	0	0	0	10
160	8992-VONJD	1	0	0	1	13
161	0867-MKZVY	1	0	1	0	20
162	4482-EWFMI	1	0	0	0	2
163	4648-YPBTM	0	0	0	0	53
164	2907-ILJBN	1	0	1	1	11
165	6345-FZOQH	0	0	1	0	69
166	3376-BMGFE	1	0	0	0	4
167	5997-OPVFA	0	0	1	0	72
168	3445-HXXGF	0	1	1	0	58
169	1159-WFSGR	1	0	1	1	16
170	7654-YWJUF	0	0	1	0	43
171	1875-QIVME	1	0	1	0	2
172	6727-IOTLZ	0	0	1	0	14
173	0691-JVSYA	1	0	1	0	53
174	5918-VUKWP	1	0	0	0	32

175	1744-JHKYS	1	0	1	0	34
176	2656-FMOKZ	1	1	0	0	15
177	2070-FNEXE	1	1	0	0	7
178	5947-SGKCL	1	0	1	1	15
179	3712-PKXZA	0	0	1	0	61
180	6317-YPKDH	1	0	0	0	1
181	6582-OIVSP	1	0	0	0	1
182	9367-WXLCH	0	0	0	0	8
183	5524-KHNJP	0	0	1	1	33
184	1918-ZBFQJ	1	0	0	0	13
185	1024-GUALD	1	0	1	0	1
186	4827-USJHP	0	0	0	0	20
187	8167-GJLRN	0	0	0	0	3
188	0956-SYCWG	1	0	0	0	13
189	8017-UVSZU	1	0	1	0	40
190	7100-FQPRV	0	0	1	1	43
191	2472-OVKUP	0	0	1	0	6
192	2984-RGEYA	1	0	1	1	69
193	9680-NIAUV	1	0	1	1	72
194	2146-EGVDT	0	0	1	1	59
195	2604-IJPDU	1	0	1	0	20
196	9178-JHUVJ	0	0	1	1	24
197	6168-YBYNP	0	0	0	0	59
198	7255-SSFBC	0	0	1	1	72
199	3645-DEYGF	0	0	0	1	1
200	9323-HGFWY	1	0	1	0	27
201	8544-GOQSH	1	0	0	0	14
202	3363-DTIVD	0	0	1	1	71
203	7018-WBJNK	0	0	0	1	13
204	9142-KZXOP	0	0	0	0	44
205	7674-YTAFD	1	0	0	0	33
206	6348-SNFUS	0	0	1	1	72
207	1285-OKIPP	0	0	0	0	1
208	7825-ECJRF	1	0	0	0	19
209	1347-KTTTA	0	0	1	0	64
210	7841-TZDMQ	0	0	0	0	2
211	4195-NZGTA	1	0	0	0	1
212	7157-SMCFK	0	0	0	1	61
213	4709-LKHYG	1	0	1	1	29
214	2504-DSHIH	0	1	1	0	23
215	0699-NDKJM	1	0	1	0	57
216	9286-BHDQG	0	0	1	1	72
217	0230-WEQUW	0	0	1	0	66
218	2040-LDIWQ	0	0	1	1	65
219	6496-JDSSB	1	0	0	0	8
220	9408-SSNVZ	1	0	0	0	4
221	4443-EMBNA	1	0	1	0	71
222	6469-MRVET	0	0	1	1	1

223	0742-MOABM	0	0	1	0	4
224	5961-VUSRV	1	0	0	0	12
225	6778-JFCMK	0	0	0	0	24
226	6341-JVQGF	1	0	1	1	31
227	2232-DMLXU	1	0	1	0	1
228	4811-JBUVU	0	0	0	0	30
229	0945-TSONX	1	0	1	1	47
230	2651-ZCBXV	0	0	0	0	54
231	3316-UWXUY	0	0	0	0	50
232	8937-RDTHP	0	0	0	0	1
233	7083-MIOPC	1	0	0	0	72
234	1984-GPTEH	1	0	0	0	29
235	1251-KRREG	0	0	0	0	2
236	0621-JFHOL	1	0	0	0	10
237	9903-LYSAB	0	0	1	0	18
238	0094-OIFMO	1	1	0	0	11
239	9227-UAQFT	0	0	0	0	16
240	7301-ABVAD	1	0	0	0	72
241	6614-FHDBO	0	0	0	0	72
242	7576-ASEJU	1	0	1	1	41
243	9058-HRZSV	1	1	1	0	65
244	4522-AKYLR	1	1	0	0	13
245	0221-WMXNQ	0	1	0	0	4
246	0303-UNCIP	0	0	0	0	41
247	9947-OTFQU	0	1	0	0	15
248	0322-YINQP	0	0	0	0	1
249	0959-WHOKV	0	0	0	0	42
250	4075-JFPGR	1	0	1	0	51
251	4629-NRKKX	1	0	1	1	2
252	9514-JDSKI	0	1	1	0	1
253	3282-ZISZV	0	0	0	1	32
254	3675-YDUPJ	0	0	0	0	10
255	4111-BNXIF	1	0	1	1	67
256	7017-VFHAY	1	0	1	1	61
257	6655-LHBYW	0	0	0	0	50
258	4959-JOSRX	1	0	1	0	2
259	5046-NUHWD	1	1	1	0	29
260	7273-TEFQD	0	1	0	0	3
261	3606-TWKGI	0	1	0	0	13
262	7529-ZDFXI	0	1	1	0	57
263	7605-BDWDC	1	0	0	0	31
264	1950-KSVVJ	1	0	1	0	45
265	0123-CRBRT	1	0	1	1	61
266	6292-TOSSS	0	0	0	0	50
267	3197-ARFOY	1	1	0	0	19
268	6323-AYBRX	0	0	0	0	59
269	7014-ZZXAW	1	0	1	0	71
270	4385-GZQXV	1	1	0	0	16

271	7633-MVPUY	0	0	1	0	57
272	6366-ZGQGL	0	0	0	0	1
273	4716-HHKQH	0	1	1	0	20
274	5940-AHUHD	0	0	0	0	1
275	6432-TWQLB	0	0	1	0	5
276	4484-GLZOU	1	0	1	0	52
277	3179-GBRWV	0	1	1	0	21
278	8645-KWHJO	0	0	0	0	14
279	4130-MZLCC	1	0	0	0	5
280	0314-TKOSI	1	0	0	0	6
281	8229-MYEJZ	1	0	0	0	10
282	2080-SRCDE	1	0	0	1	1
283	9577-WJVCQ	1	0	0	0	68
284	9512-UIBFX	0	0	1	1	18
285	6202-DYYFX	1	0	0	0	22
286	3808-HFKDE	1	0	0	0	20
287	5583-SXDAG	0	0	1	0	1
288	3488-PGMQJ	0	1	0	0	8
289	3580-REOAC	0	0	0	0	10
290	7534-BFESC	0	1	0	0	24
291	3727-OWVYD	0	0	0	0	35
292	2294-SALNE	0	0	1	1	23
293	4847-TAJYI	1	1	0	0	6
294	1563-IWQEX	1	0	0	0	12
295	8203-XJZRC	0	0	0	0	1
296	6556-DBKZF	1	0	1	1	71
297	6851-WEFYX	0	1	1	0	35
298	2985-JUUBZ	0	0	1	1	40
299	6390-DSAZX	1	0	0	1	1
300	0895-LMRSF	0	0	0	0	23
301	8098-LLAZX	1	1	0	0	4
302	8266-VBFQL	0	0	0	0	4
303	8181-YHCMF	1	0	1	1	68
304	2240-HSJQD	0	0	0	1	38
305	1248-DYXUB	0	0	1	1	52
306	0265-EDXBD	0	1	1	0	32
307	4115-BNPJY	0	0	1	1	29
308	3167-SNQPL	0	1	1	1	38
309	4091-TVOCN	0	0	0	1	48
310	1098-TDVUQ	1	0	0	0	1
311	7277-OZCGZ	1	0	0	0	22
312	1557-EMYVT	1	0	0	0	43
313	2799-ARNLO	1	1	1	0	5
314	7563-BIUPC	0	0	0	0	5
315	5027-YOCXN	0	0	1	1	51
316	3973-SKMLN	0	0	0	0	71
317	2321-OMBXY	1	0	1	1	38
318	2840-XANRC	0	1	1	0	24

319	6745-JEFZB	0	0	1	0	35
320	5020-ZSTTY	1	1	0	0	54
321	9880-TDQAC	1	0	1	1	72
322	8705-WZCYL	0	0	0	0	1
323	7102-JJVTX	1	0	1	1	9
324	8626-PTQGE	0	0	0	0	69
325	4983-CLMLV	1	0	1	0	52
326	5701-YVSVF	1	1	1	0	11
327	5804-LEPIM	1	1	0	0	2
328	5697-GOMBF	1	1	1	1	28
329	2739-CACDQ	1	1	0	0	17
330	9385-EHGDO	1	0	1	1	35
331	9498-FIMXL	1	0	0	0	8
332	2379-GYFLQ	0	0	0	0	46
333	0122-OAHPZ	1	0	0	0	7
334	2868-SNELZ	1	0	0	0	2
335	4322-RCYMT	0	0	1	1	68
336	6680-NENYN	1	0	0	0	43
337	2088-IEBAU	1	0	0	0	68
338	7982-VCELR	1	0	0	0	36
339	1343-EHPYB	0	0	1	0	63
340	6035-BXTTY	1	1	0	0	32
341	6885-PKOAM	1	0	1	0	71
342	7520-HQWJU	1	0	1	1	66
343	9639-BUJXT	0	0	0	0	63
344	5924-SNGKP	1	0	0	1	41
345	0021-IKXGC	1	1	0	0	1
346	2034-GDRCN	1	0	0	0	2
347	8966-SNIZF	1	0	1	0	70
348	6243-OZGFH	1	0	0	0	23
349	4654-DLAMQ	1	1	1	0	64
350	0513-RBGPE	0	0	1	1	37
351	5160-UXJED	0	0	0	1	17
352	4115-NZRKS	1	1	0	0	7
353	0219-YTZUE	0	0	1	1	4
354	0623-IIHUG	1	1	0	0	21
355	4572-DVCGN	1	0	0	0	10
356	3351-NGXYI	1	1	0	0	16
357	8984-EYLLL	0	0	1	0	64
358	9057-MSWCO	0	1	1	0	27
359	9833-TGFHX	0	0	1	1	42
360	9294-TDIPC	0	0	0	1	5
361	5229-DTFYB	1	0	0	0	41
362	0104-PPXDV	0	0	1	0	58
363	5176-LMJXE	1	0	0	0	47
364	3583-KRKMD	0	0	0	0	18
365	1010-DIAUQ	0	0	0	0	5
366	9069-LGEUL	0	0	1	0	23

367	7302-ZMHHP	1	0	0	0	1
368	9571-EDEBV	0	0	1	0	71
369	3520-FJGCV	0	0	1	1	72
370	6563-VRERX	0	0	1	1	33
371	0259-GBZSH	0	0	0	0	2
372	6122-EFVKN	0	0	0	1	24
373	2805-EDJPQ	1	0	1	1	56
374	6862-CQUMB	0	0	0	0	37
375	7156-MXBJE	1	0	0	0	43
376	6158-HDPXZ	0	0	0	0	1
377	9601-BRXPO	1	0	1	0	25
378	2863-IMQDR	1	0	0	0	61
379	5686-CMAWK	0	0	0	0	17
380	5651-CRHKQ	1	0	1	0	41
381	6905-NIQIN	0	0	0	0	1
382	8204-YJCLA	0	1	1	1	72
383	5167-ZFFMM	0	0	0	0	1
384	6583-SZVGP	0	0	0	0	48
385	4895-TMWIR	0	1	1	0	11
386	0533-BNWKF	1	1	1	0	55
387	1708-PBBOA	1	0	0	0	42
388	8782-LKFPK	0	0	0	0	44
389	5522-JBWMO	0	0	0	1	1
390	3597-MVHJT	1	0	0	0	27
391	9774-NRNAU	0	1	1	0	27
392	0224-RLWWD	1	1	0	0	2
393	9967-ATRFS	1	0	0	0	19
394	3951-NJCVI	1	1	1	0	42
395	2977-CEBSX	1	0	0	0	66
396	0177-PXBAT	0	1	1	0	33
397	6599-CEBNN	1	0	0	0	34
398	2519-ERQOJ	0	1	0	0	33
399	5876-QMYLD	1	0	1	1	23
400	2277-AXSDC	1	0	0	0	32
401	9442-JTWDL	1	0	0	0	11
402	0979-PHULV	0	0	1	1	69
403	3067-SVMTC	1	0	1	0	68
404	5495-GPSRW	0	0	0	0	20
405	7606-BPHHN	0	0	0	0	72
406	4742-DRORA	0	0	1	1	60
407	0111-KLBQG	0	1	1	1	32
408	4800-VHZKI	1	0	0	0	1
409	7989-CHGTL	0	0	0	0	1
410	0334-GDDSO	0	1	0	0	3
411	4163-NCJAK	1	0	1	0	46
412	5233-AOZUF	1	0	1	0	29
413	5973-EJGDP	0	0	0	0	51
414	1996-DBMUS	1	1	1	0	48

415	7916-VCCPB	1	0	1	1	16
416	4686-GEFRM	0	0	1	0	70
417	5249-QYHEX	1	0	1	1	40
418	0578-SKVMF	1	0	1	1	22
419	5564-NEMQO	1	1	0	0	1
420	2233-FAGXV	1	0	1	1	5
421	5605-IYGFG	1	0	0	0	7
422	7663-ZTEGJ	0	0	0	1	29
423	3935-TBRZZ	0	0	1	1	44
424	8111-BKVDS	1	0	0	0	10
425	2055-SIFSS	1	1	1	0	55
426	2806-MLNTI	0	1	1	0	52
427	8734-DKSTZ	1	0	1	1	10
428	4360-PNRQB	0	0	0	0	18
429	6152-ONASV	1	0	1	0	68
430	9063-ZGTUY	1	0	1	1	61
431	7781-HVGMK	1	0	1	1	72
432	2181-UAESM	0	0	0	0	2
433	2957-LOLHO	0	0	0	0	12
434	6048-NJXHX	0	0	1	0	41
435	2320-SLKMB	1	0	0	0	26
436	4980-URKXC	0	0	1	0	36
437	4376-KFVRS	0	0	1	1	72
438	5886-VLQVU	0	0	1	0	35
439	3577-AMVUX	0	0	0	0	1
440	0771-WLCLA	1	0	1	1	16
441	5628-RKIFK	1	1	0	0	49
442	0206-TBWLC	1	0	1	0	54
443	2937-FTHUR	1	0	0	1	18
444	1910-FMXJM	1	0	1	0	36
445	7752-XUSCI	1	0	0	0	60
446	4110-PFEUZ	1	0	0	0	1
447	0732-OCQOC	1	0	1	1	52
448	5168-MSWXT	0	0	1	1	8
449	1090-ESELR	0	0	1	1	72
450	8592-PLTMQ	1	0	0	0	64
451	5760-WRAHC	1	1	0	0	22
452	8847-GEOOQ	0	0	1	0	60
453	0256-LTHVJ	1	0	1	1	28
454	4785-FCIFB	1	0	1	0	61
455	8313-NDOIA	1	0	0	0	24
456	5149-CUZUJ	0	0	1	1	28
457	0942-KOWSM	1	0	1	1	30
458	4237-CLSM	0	0	1	0	2
459	1452-VOQCH	0	0	0	0	1
460	4719-UMSIY	0	0	0	1	6
461	6614-VBEGU	1	0	1	0	24
462	0880-TKATG	0	0	1	1	4

463	3811-VBYBZ	0	0	0	0	7
464	1480-BKXGA	0	1	1	0	72
465	2996-XAUVF	0	0	0	0	70
466	9076-AXYIK	0	1	1	0	64
467	5968-XQIVE	0	0	1	1	72
468	8896-RAZCR	1	0	0	1	44
469	4640-UHDOS	1	0	1	1	13
470	4933-IKULF	1	1	0	0	17
471	3583-EKAPL	0	0	0	0	1
472	1304-BCCFO	0	0	1	0	9
473	4104-PVRPS	0	0	1	0	24
474	9399-APLBT	1	0	1	1	1
475	2359-KMGLI	0	0	0	0	24
476	3780-DDGSE	0	1	1	1	35
477	4431-EDMIQ	1	0	1	1	7
478	0306-JAELE	0	0	0	0	5
479	6227-HWPWX	1	0	0	1	15
480	0486-LGCCH	0	0	1	1	11
481	0447-BEMNG	1	0	1	0	48
482	4612-SSVHJ	1	1	0	0	20
483	5168-MQQCA	1	0	1	0	72
484	5949-XIKAE	1	0	1	1	8
485	7971-HLVXI	0	0	1	1	72
486	9094-AZPHK	1	0	0	0	15
487	3649-JPUGY	0	0	0	0	72
488	4472-LVYGI	1	0	1	1	0
489	8372-JUXUI	0	0	0	1	1
490	3552-CTCYF	0	0	1	1	63
491	6778-YSNIH	1	0	0	0	2
492	0388-EOPEX	1	0	1	0	2
493	5756-OZRIO	0	1	1	0	61
494	6579-JPICP	0	0	0	0	1
495	8205-OTCHB	0	0	0	0	22
496	4134-BSXLX	0	0	1	0	28
497	0505-SPOOW	1	0	1	0	70
498	6235-VDHOM	1	1	0	0	5
499	7783-YKGDV	1	0	0	0	12
...
6543	8050-XGRVL	1	0	1	1	62
6544	6661-HBGWL	1	1	0	0	42
6545	1518-VOWAV	1	0	0	0	9
6546	9828-QHFBK	0	0	0	0	24
6547	3908-MKIMJ	0	1	1	0	68
6548	5012-YSPJJ	0	0	1	1	31
6549	5909-ECHUI	1	0	0	0	1
6550	1309-BXVOQ	0	0	1	0	21
6551	6728-VOIFY	1	0	1	0	63
6552	9317-WZPGV	1	1	0	0	2

6553	4891-NLUBA	1	0	1	1	61
6554	2856-HYAPG	1	0	0	0	1
6555	8969-PRHFK	0	0	0	0	18
6556	0661-KQHNK	1	0	1	1	6
6557	8709-KRDVL	1	0	0	0	33
6558	4488-PSYCG	0	0	0	0	16
6559	1427-VERSM	1	0	1	0	56
6560	9801-NOSHQ	0	0	0	1	23
6561	6339-YPSAH	0	0	0	0	9
6562	3621-CEOVK	1	1	1	0	14
6563	6906-ANDWJ	0	0	1	1	15
6564	2159-TURXX	0	0	0	0	5
6565	1548-FEHLV	0	0	1	0	61
6566	3795-CAWEX	0	0	1	1	70
6567	6215-NQCPY	0	0	0	0	15
6568	5647-URDKA	0	0	1	1	8
6569	2229-DPMBI	1	0	1	1	8
6570	9626-WEQRM	1	0	0	0	4
6571	2188-SXWVT	1	0	0	0	34
6572	6258-PVZWJ	0	0	1	0	68
6573	1094-BKOSX	1	0	1	1	45
6574	6969-MVBAI	1	1	0	0	9
6575	2978-XXSOG	1	0	0	0	22
6576	2342-CKIAO	1	0	0	0	2
6577	6953-PBDIN	0	0	1	0	70
6578	3898-BSJYF	1	0	0	1	10
6579	3938-YFPXD	0	0	0	0	72
6580	7696-AMHOD	1	0	1	1	49
6581	2453-SAFNS	1	1	0	0	54
6582	9558-IHEZX	1	0	0	0	71
6583	9617-UDPEU	1	0	0	0	22
6584	6340-DACFT	1	0	1	1	50
6585	4955-VCWBI	1	0	1	1	43
6586	6813-GZQCG	1	0	1	1	45
6587	7426-GSWPO	0	1	0	0	64
6588	3389-KTRXV	1	0	1	1	23
6589	3118-UHVVQ	1	0	1	0	68
6590	1031-IIIDEO	1	0	0	0	1
6591	5832-XKAES	0	0	0	0	2
6592	3205-MXZRA	0	0	0	0	26
6593	4701-AHWMW	0	0	1	0	55
6594	8317-BVKSO	0	0	0	0	14
6595	5702-KVQRD	0	0	1	0	71
6596	0083-PIVIK	0	0	0	0	64
6597	9210-IAHGH	1	0	0	0	7
6598	6169-PGNCD	1	0	0	0	57
6599	0023-XUOPT	1	0	1	0	13
6600	4592-IWTJI	1	0	1	1	3

6601	4909-JOUPP	0	1	1	0	72
6602	4657-FWVFX	1	0	1	1	40
6603	2257-BOVXD	0	0	1	0	14
6604	7729-JTEEC	0	0	1	1	2
6605	7632-MNYOY	0	1	0	0	66
6606	6518-LGAOV	1	0	1	0	38
6607	7242-QZLXF	0	0	0	1	1
6608	4576-CSAJH	0	0	0	0	22
6609	1000-AJSLD	0	0	0	0	1
6610	9696-RMYBA	0	0	0	0	5
6611	8690-UPCZI	0	0	1	1	29
6612	1062-LHZOD	0	0	1	1	1
6613	9770-LXDBK	1	0	0	0	3
6614	4086-WITJG	0	0	1	1	71
6615	8344-WFMFH	0	0	0	1	9
6616	9600-NAXZN	0	0	0	0	43
6617	8822-KNBHV	1	0	0	0	48
6618	8404-FYDIB	0	0	0	0	26
6619	2791-SFVEW	1	0	0	0	9
6620	6457-USBER	0	0	0	0	1
6621	6762-NSODU	1	0	1	1	46
6622	4662-EKDPQ	0	0	0	0	2
6623	9248-OJYKK	0	1	0	0	1
6624	9888-ZCUMM	0	0	1	1	64
6625	3398-FSHON	1	1	0	0	12
6626	3319-DWOEP	0	1	1	0	6
6627	1074-WVEVG	1	0	1	0	59
6628	9979-RGMZT	1	0	0	0	7
6629	6437-UDQJM	1	1	1	0	72
6630	1226-IENZN	0	1	0	0	16
6631	2108-GLPQB	0	0	1	0	25
6632	9259-PACGQ	1	0	1	0	34
6633	4415-IJZTP	1	0	0	0	1
6634	1465-VINDH	1	0	1	1	10
6635	5474-LAMUQ	0	0	1	0	24
6636	3468-DRVQJ	1	0	1	1	10
6637	1122-YJBCS	0	0	1	0	69
6638	4990-ALDGW	0	0	0	0	57
6639	4816-OKWNX	0	0	1	1	50
6640	3315-IKYZQ	0	0	1	1	28
6641	2810-FTLEM	1	0	0	0	16
6642	4747-LCAQL	0	0	0	0	25
6643	3411-WLRSQ	1	1	1	0	3
6644	0898-XCGTF	0	0	1	0	61
6645	8006-PYCSW	1	0	0	0	2
6646	8249-THVEC	0	0	1	1	51
6647	8722-PRFDV	1	0	1	1	71
6648	2164-SOQXL	1	0	1	1	20

6649	4020-KIUDI	0	0	1	1	6
6650	5850-BDWCY	1	0	0	0	6
6651	2038-YSEZE	1	0	0	0	29
6652	0827-ITJPH	0	0	0	0	36
6653	8799-0XZMD	1	0	0	0	28
6654	1925-TIBLE	1	0	1	0	7
6655	1705-GUHPV	1	0	0	0	63
6656	4779-ZGICK	0	0	1	1	48
6657	0048-PIHNL	1	0	1	0	49
6658	0818-0CPZO	0	1	0	0	27
6659	3967-KXAPS	0	0	1	0	72
6660	1447-GIQMR	0	0	1	0	1
6661	3704-IEAXF	1	0	1	1	72
6662	6810-VCAEX	1	0	0	0	47
6663	0674-EYYZV	1	0	0	0	1
6664	4480-MBMLB	1	0	0	0	36
6665	1395-OFUWC	0	0	1	1	43
6666	0822-QGCXA	1	1	1	0	27
6667	0872-NXJYS	1	0	0	0	9
6668	2832-KJCRD	1	0	0	0	38
6669	3588-WSTTJ	1	1	0	0	35
6670	4075-WKNIU	1	0	1	1	0
6671	5090-EMGTC	1	0	1	0	59
6672	2346-CZYIL	0	0	0	0	27
6673	3798-EPWRR	1	1	0	0	2
6674	6258-NGCNG	0	0	0	0	7
6675	4186-ZBUEW	1	0	0	0	36
6676	5274-XHAKY	1	0	1	1	41
6677	1442-BQPVU	1	0	0	0	13
6678	3978-YNKDD	0	0	0	1	19
6679	4940-KHCWD	1	0	1	0	60
6680	9412-ARGBX	1	0	0	1	48
6681	1389-CXMLU	0	1	0	0	3
6682	9589-ABEPT	0	0	1	0	69
6683	9388-ZEYVT	0	0	0	0	43
6684	0305-SQECB	1	0	0	1	11
6685	7605-SNLQG	1	0	1	0	45
6686	4670-TABXH	0	0	1	0	72
6687	5561-NWEVX	1	1	1	0	2
6688	0064-SUDOG	1	0	1	1	12
6689	8561-NMTBD	1	0	1	1	67
6690	5161-XEUVX	0	0	1	0	37
6691	8292-FRFZQ	1	0	0	0	39
6692	8591-NXRCV	1	0	0	0	41
6693	7895-VONWT	1	0	0	0	25
6694	4526-RMTLL	0	0	1	1	8
6695	6253-GNHHW	1	0	1	1	71
6696	4566-NECEV	0	0	0	0	5

6697	8080-POTJR	1	0	0	0	30
6698	6906-MPARY	0	0	0	0	40
6699	3662-FXJFO	1	0	0	0	54
6700	8107-RZLNV	0	0	1	0	72
6701	0516-OOHAR	0	0	1	1	28
6702	2027-CWDNU	0	0	1	1	18
6703	2737-WFVYW	1	0	0	0	2
6704	9912-OMZDS	1	0	1	1	59
6705	3733-ZEECP	0	0	1	1	22
6706	7878-RTCZG	1	0	0	0	1
6707	2452-MRMZF	1	1	1	0	72
6708	2272-QAGFO	1	1	0	0	14
6709	7103-IPXPJ	0	0	1	0	50
6710	4342-HFXWS	1	0	1	1	48
6711	3545-CNWRG	1	0	1	1	49
6712	1785-BPHTP	0	0	1	1	28
6713	4989-LIXVT	0	1	0	0	68
6714	7315-WYOAW	0	0	0	0	13
6715	1173-XZPYF	1	0	0	0	11
6716	9850-OWRHQ	1	0	1	0	3
6717	3768-NLUBH	0	1	1	0	57
6718	8676-TRMJS	0	0	0	0	3
6719	2509-TFPJU	0	0	1	0	72
6720	9530-GRMJG	0	0	1	1	70
6721	6898-RBTLU	1	0	1	1	49
6722	5481-NTDOH	1	1	1	0	67
6723	2068-WWXQZ	0	0	0	0	46
6724	7359-SSBJK	1	1	0	0	64
6725	2061-VVFST	1	0	1	0	37
6726	0685-MLYYM	1	1	0	0	2
6727	0749-IRGQE	1	1	1	0	13
6728	2380-DAMQP	1	0	1	0	72
6729	2256-YLYLP	0	0	1	1	68
6730	1272-ILHFG	0	0	1	1	15
6731	0164-XAIRP	1	0	0	0	24
6732	5666-CYCYZ	1	0	0	0	24
6733	4011-ARPHK	0	0	0	0	27
6734	8182-PNAGI	0	0	0	0	12
6735	6365-HITVU	1	0	1	1	71
6736	7558-IMLMT	0	0	1	1	67
6737	9488-FYQAU	1	0	1	0	63
6738	3590-TCXTB	0	0	0	0	1
6739	6994-KERXL	0	0	0	0	4
6740	7957-RYHQD	1	1	0	0	40
6741	2180-DXNEG	1	0	0	0	12
6742	1960-UOTYM	0	0	1	1	52
6743	2740-JFBOK	0	0	0	0	10
6744	6500-JVEGC	0	0	0	0	68

6745	5515-AKOAJ	1	0	0	0	54
6746	8976-OQHGT	1	0	1	1	4
6747	5245-VDBUR	1	0	1	0	52
6748	6230-BSUXY	1	1	0	0	1
6749	8469-SNFFH	0	0	1	0	70
6750	2144-ESWKO	0	0	0	0	43
6751	1241-FPMOF	0	0	0	0	52
6752	9928-BZVLZ	1	0	0	0	12
6753	4114-QMKVN	1	0	1	1	56
6754	2775-SEFEE	0	0	0	1	0
6755	9003-CPATH	0	0	0	0	42
6756	1754-GKYPY	0	1	1	0	22
6757	5294-CDGWY	0	0	1	1	51
6758	7956-XQWGU	0	0	0	0	27
6759	1591-MQJTP	0	1	1	0	51
6760	5295-PCJOO	0	0	0	1	4
6761	2369-FEVNO	0	0	0	0	1
6762	9863-JZAIC	0	0	0	0	35
6763	7471-MQPOS	0	1	1	1	71
6764	7660-HDPJV	1	0	0	0	1
6765	5115-SQAAU	1	0	1	1	69
6766	9845-QOMAD	0	0	1	1	14
6767	7672-VFMXZ	0	0	1	0	57
6768	9739-JLPQJ	1	0	1	1	72
6769	9916-AYHTC	0	0	0	0	48
6770	3855-ONCAR	1	0	1	1	4
6771	1488-SYSFC	0	0	1	1	31
6772	7931-PXHFC	0	0	0	0	38
6773	3990-QYKBE	0	1	1	0	37
6774	0970-QXPXW	1	0	0	0	1
6775	3259-KNMRR	0	1	0	0	57
6776	6120-RJKLU	1	1	1	0	62
6777	9572-WUKSB	0	0	1	0	3
6778	5893-KCLGT	1	0	0	1	72
6779	0076-LVEPS	0	0	0	1	29
6780	3640-JQGJG	0	0	1	1	13
6781	4919-MOAVT	0	0	0	1	3
6782	1596-OQSPS	1	0	0	0	11
6783	9867-XOBQA	1	0	0	1	21
6784	9546-KDTRB	1	0	0	0	19
6785	3090-HAWSU	0	0	0	0	61
6786	9820-RMCQV	1	0	0	0	11
6787	3174-RKMOW	0	0	1	1	35
6788	1760-CAZHT	0	0	0	1	25
6789	7839-QRKXN	1	0	0	0	1
6790	8441-SHIPE	1	0	0	0	67
6791	5204-QZXPU	0	0	0	0	19
6792	4597-ELFTS	0	0	0	0	56

6793	1320-GVNHT	0	0	1	1	72
6794	1047-RNXZV	0	0	0	0	43
6795	3541-ZNUHK	1	0	1	1	55
6796	8450-JOVAH	0	0	1	1	2
6797	8725-JEDFD	0	0	0	0	27
6798	7562-UXTPG	1	0	0	0	13
6799	8071-SBTRN	1	0	0	0	70
6800	1113-IUJYX	1	0	1	0	14
6801	6668-CNMFP	1	0	1	1	19
6802	5626-MGTUK	1	0	0	0	20
6803	5681-LLOEI	0	0	1	1	43
6804	8212-DJRCH	0	0	1	1	5
6805	4323-OHFOW	1	1	1	0	70
6806	4933-BSAIP	1	0	1	0	40
6807	2030-BTZRO	0	0	1	1	6
6808	1116-DXXDF	0	0	0	0	39
6809	9274-CNFMO	0	1	1	0	4
6810	7758-XKCBS	0	0	0	0	15
6811	8992-JQYUN	0	0	1	0	1
6812	6563-VNPMN	1	1	0	0	45
6813	0617-AQNWT	1	0	1	0	64
6814	2267-WTPYD	1	1	1	0	57
6815	0270-THENM	0	0	1	1	72
6816	2446-PLQVO	0	0	0	0	1
6817	4707-MAXGU	0	0	1	0	72
6818	2710-WYVXG	1	0	0	0	3
6819	3005-NFMTA	0	1	0	0	55
6820	6300-BWMJX	1	0	1	0	59
6821	8784-CGILN	1	0	0	0	18
6822	5389-FFVKB	0	1	1	0	32
6823	7009-LGECI	1	0	0	0	4
6824	8444-WRIDW	1	1	0	0	66
6825	5022-KVDQT	0	0	0	0	27
6826	7976-CICYS	0	0	0	0	4
6827	1036-GUDCL	0	0	1	1	60
6828	2005-DWQZJ	1	0	1	1	8
6829	8148-WOCMK	0	0	1	1	8
6830	7815-PDTHL	0	0	0	0	35
6831	9451-LPGOO	0	0	0	0	7
6832	9173-IVZVP	1	0	1	1	53
6833	9129-UXERG	1	1	0	0	18
6834	3635-JBPSG	1	0	0	0	15
6835	7964-ZRKKG	0	0	1	0	67
6836	5868-YWPDW	0	1	1	0	6
6837	6229-LSCKB	0	1	0	0	6
6838	2025-JKFWI	0	0	0	0	13
6839	4078-SAYYN	1	0	0	0	11
6840	1724-IQWNM	0	0	0	1	1

6841	8217-QYOHV	0	0	0	0	5
6842	5546-QUERU	0	0	0	0	13
6843	9940-HPQPG	1	0	1	0	9
6844	6897-UUBNU	0	0	0	0	29
6845	6127-IYJOZ	0	1	0	0	1
6846	6618-RYATB	1	0	0	0	1
6847	8930-XOTDP	1	0	1	1	18
6848	5916-QEWPT	1	0	1	0	2
6849	5060-TQUQN	0	0	1	1	30
6850	0531-XBKMM	0	0	0	1	66
6851	8465-SBRXP	0	0	1	1	38
6852	2408-PSJVE	0	0	1	1	44
6853	9079-YEXQJ	1	0	0	0	54
6854	9700-ZCLOT	0	0	0	0	2
6855	8738-JOKAR	1	0	0	0	42
6856	4534-WGCIR	1	0	1	1	58
6857	1930-WNXSB	0	0	1	1	58
6858	2685-SREOM	1	0	1	1	25
6859	3508-CFVZL	1	0	0	0	71
6860	0402-CQAJN	1	0	0	0	37
6861	6692-UDPJC	1	0	1	1	14
6862	1273-MTETI	1	1	0	0	4
6863	0657-DOGUM	1	0	1	0	48
6864	5480-HPRRX	1	1	0	0	3
6865	8792-AOROI	1	0	1	0	8
6866	0295-PPHDO	0	0	0	0	1
6867	5146-YYFRZ	0	0	0	0	67
6868	1195-OIYEJ	0	0	0	0	13
6869	5906-CVLHP	1	0	1	1	45
6870	3452-SRFEG	0	0	0	0	49
6871	4070-OKWVH	1	0	1	0	52
6872	5297-MDOIR	1	0	1	0	63
6873	6369-MCAKO	1	0	1	1	68
6874	4926-UMJZD	1	0	1	0	31
6875	6848-HJTXY	1	0	1	0	64
6876	6341-AEVKX	1	0	1	0	62
6877	4501-EQDRN	1	0	0	0	1
6878	2990-HWIML	1	0	0	0	6
6879	0682-USIXD	1	0	1	0	21
6880	6976-BWGLQ	1	0	1	1	72
6881	7078-NVFAM	1	0	1	1	32
6882	8065-QBYTO	1	1	0	0	71
6883	2133-TSRRM	1	0	0	1	34
6884	7384-GHBPI	0	0	1	0	3
6885	7603-USHJS	0	0	0	1	12
6886	7234-FECYN	1	1	0	0	8
6887	2511-ALLCS	1	0	1	1	35
6888	3191-CSNMG	1	0	1	1	3

6889	7952-OBOYL	0	0	0	0	3
6890	7470-DYNOE	0	0	0	0	53
6891	7853-OETYL	1	0	1	0	4
6892	1545-ACTAS	1	0	1	1	48
6893	5876-HZVZM	1	0	1	1	6
6894	1400-MMYXY	0	1	1	0	3
6895	5126-RCXYW	0	0	1	1	54
6896	3085-QUOZK	1	0	0	0	1
6897	2363-BJLSL	0	0	0	0	62
6898	1956-YIFGE	0	0	1	1	22
6899	3926-CUQZX	0	0	0	0	1
6900	7921-LMDFQ	0	1	0	0	51
6901	2925-MXLSX	1	0	0	0	30
6902	5820-PTRYM	1	1	1	0	56
6903	9609-BENEA	0	0	1	0	35
6904	6211-WHMYA	1	1	0	0	64
6905	4459-BBGHE	0	0	0	1	30
6906	9945-PSVIP	1	0	1	1	25
6907	1041-RXHRA	1	0	0	0	41
6908	1750-CSKKM	0	0	0	1	9
6909	9108-EJFJP	1	0	1	0	1
6910	0530-IJVDB	0	0	0	1	70
6911	0508-SQWPL	1	0	1	1	57
6912	2215-ZAFGX	0	0	0	0	9
6913	8213-TAZPM	1	0	1	1	69
6914	7142-HVGBG	0	1	1	0	43
6915	1304-SEGFY	1	0	1	0	72
6916	7242-EDTYC	0	0	0	1	44
6917	2904-GGUAZ	1	0	1	0	72
6918	8267-ZNYVZ	1	0	1	0	33
6919	5136-GFPMB	0	0	0	0	54
6920	2595-KIWPV	0	0	0	1	27
6921	5243-SAOTC	0	0	0	0	54
6922	9398-MMQTO	0	0	0	0	3
6923	7619-PLRLP	1	0	1	0	53
6924	6457-GIRWB	0	0	0	0	1
6925	6508-NJYRO	0	0	1	0	15
6926	1450-SKCVI	1	0	0	0	56
6927	4710-NKCAW	0	0	1	1	5
6928	5306-BVTKJ	0	0	1	1	48
6929	0357-NVCRI	1	0	0	1	25
6930	5570-PTWEH	1	0	1	0	3
6931	2371-KFUOG	0	0	0	0	58
6932	0463-ZSDNT	0	0	0	0	10
6933	6502-MJQAE	0	0	0	0	1
6934	6257-DTAYD	0	0	1	0	71
6935	4616-ULAOA	1	0	1	1	65
6936	7693-LCKZL	0	0	1	1	5

6937	7746-AWNQW	1	0	0	0	28
6938	5996-EBTKM	1	0	1	1	67
6939	2758-RNWXS	0	0	0	0	35
6940	2314-TNDJQ	1	0	1	1	72
6941	2405-LBMUW	1	0	1	1	61
6942	3454-JFUBC	0	1	0	0	68
6943	0032-PGELS	1	0	1	1	1
6944	9039-ZVJDC	0	0	0	0	3
6945	6797-LNAQX	0	0	1	1	70
6946	9013-AQORL	1	0	0	1	48
6947	2898-MRKPI	0	0	1	1	68
6948	2750-BJLSB	1	0	0	0	47
6949	3648-GZPHF	0	0	1	1	32
6950	2075-RMJIK	1	0	1	1	5
6951	9588-YRFHY	0	0	0	0	49
6952	6394-MFYNG	1	0	0	0	48
6953	1564-NTYXF	1	1	0	0	13
6954	9364-YKUVW	0	0	0	0	15
6955	5392-AKEMH	1	0	0	0	12
6956	2451-YMUXS	0	1	0	0	67
6957	3914-FDRHP	0	0	0	0	9
6958	3078-ZKNTS	1	0	1	1	13
6959	1024-KPRBB	1	0	0	0	38
6960	4690-PKDQG	1	1	1	0	42
6961	8155-IBNHG	1	0	1	0	24
6962	0886-QGENL	1	1	1	0	27
6963	9547-ITEFG	0	0	1	1	9
6964	1264-FUHCX	1	0	1	0	49
6965	7789-CRUV C	1	1	1	0	61
6966	6598-KELSS	0	0	0	1	50
6967	8739-WWKDU	0	1	0	0	25
6968	8685-WHQPW	1	1	0	0	22
6969	4745-LSPLO	0	0	0	0	1
6970	8083-YTZES	0	0	0	0	4
6971	7240-FQLHE	1	1	1	0	18
6972	6664-FPDAC	1	1	0	0	56
6973	9972-VAFJJ	1	1	1	0	53
6974	0422-UXFAP	1	0	1	0	51
6975	1904-WAJAA	1	0	1	1	24
6976	5130-YPIRV	1	0	1	0	62
6977	2843-CQMEG	0	0	0	0	24
6978	6439-PKTRR	1	0	1	1	70
6979	5351-QESIO	0	0	0	1	1
6980	0786-VSSUD	0	1	0	0	16
6981	5568-DMXZS	1	0	0	0	8
6982	8468-FZTOE	1	0	1	1	72
6983	6633-SYEUS	1	0	0	0	23
6984	6447-GORXK	0	0	0	1	31

6985	6967-PEJLL	0	0	1	1	37
6986	3976-BWUCK	1	0	1	0	30
6987	5981-ZVXOT	1	1	0	0	35
6988	1684-FLBGS	1	0	1	1	23
6989	1389-WNUIB	1	0	1	1	20
6990	0376-OIWME	0	0	1	0	36
6991	3585-ISXZP	1	0	0	0	8
6992	0218-QNVAS	0	0	1	1	71
6993	6583-QGCSI	1	1	1	0	50
6994	0804-YGEQV	1	0	1	1	43
6995	7164-BPTUT	0	0	0	1	57
6996	4174-LPGTI	1	0	1	1	41
6997	2523-EWWZL	1	0	1	0	27
6998	0928-XUTSN	1	0	0	0	13
6999	2108-XWMPY	0	0	0	0	3
7000	0052-YNYOT	1	0	0	0	67
7001	6304-IJFSQ	0	0	0	0	3
7002	9586-JGQKH	1	0	1	0	64
7003	4501-VCPEK	0	0	0	0	26
7004	6075-SLNIL	0	0	0	0	38
7005	9347-AERRL	0	0	1	0	23
7006	0093-XWZFY	0	0	0	0	40
7007	2274-XUATA	0	1	1	0	72
7008	1980-KXVPM	1	1	0	0	3
7009	7703-ZEKEF	0	0	0	0	23
7010	0723-DRCLG	1	1	1	0	1
7011	5482-NUPNA	1	0	0	0	4
7012	6691-CCIHA	1	0	1	0	62
7013	1685-BQULA	1	0	0	0	40
7014	9053-EJUNL	0	0	0	0	41
7015	0666-UCTJO	0	1	1	0	34
7016	1471-GIQKQ	1	0	0	0	1
7017	4807-IZYOZ	1	0	0	0	51
7018	1122-JWTJW	0	0	1	1	1
7019	9710-NJERN	1	0	0	0	39
7020	9837-FWLCH	0	0	1	1	12
7021	1699-HPSBG	0	0	0	0	12
7022	7203-OYKCT	0	0	0	0	72
7023	1035-IPQPU	1	1	1	0	63
7024	7398-LXGYX	0	0	1	0	44
7025	2823-LKABH	1	0	0	0	18
7026	8775-CEBBJ	1	0	0	0	9
7027	0550-DCXLH	0	0	0	0	13
7028	9281-CEDRU	1	0	1	0	68
7029	2235-DWLJU	1	1	0	0	6
7030	0871-OPBXW	1	0	0	0	2
7031	3605-JISKB	0	1	1	0	55
7032	6894-LFHLY	0	1	0	0	1

7033	9767-FFLEM	0	0	0	0	38
7034	0639-TSIQW	1	0	0	0	67
7035	8456-QDAVC	0	0	0	0	19
7036	7750-EYXWZ	1	0	0	0	12
7037	2569-WGERO	1	0	0	0	72
7038	6840-RESVB	0	0	1	1	24
7039	2234-XADUH	1	0	1	1	72
7040	4801-JZAZL	1	0	1	1	11
7041	8361-LTMKD	0	1	1	0	4
7042	3186-AJIEK	0	0	0	0	66

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82	0	0	Month-to-month	1
83	1	1	Month-to-month	1
84	0	0	Two year	1
85	1	1	Month-to-month	1
86	1	0	One year	1
87	0	0	Two year	0
88	0	0	Two year	1

89	1	0	Month-to-month	0
90	0	0	Month-to-month	0
91	0	0	Month-to-month	0
92	1	1	Two year	1
93	1	1	Month-to-month	1
94	1	1	Two year	1
95	0	0	Month-to-month	1
96	0	0	One year	1
97	0	0	Month-to-month	0
98	0	0	Two year	0
99	1	1	Month-to-month	1
100	0	0	Month-to-month	0
101	0	0	Month-to-month	0
102	1	0	One year	0
103	1	0	One year	0
104	1	1	Two year	1
105	0	0	Month-to-month	0
106	1	1	One year	1
107	0	0	One year	0
108	1	1	One year	0
109	0	0	Two year	0
110	1	0	Month-to-month	1
111	0	0	One year	0
112	1	0	Month-to-month	1
113	0	0	Month-to-month	1
114	1	1	Two year	1
115	1	0	Month-to-month	0
116	0	0	Two year	0
117	1	1	Month-to-month	1
118	0	0	Two year	0
119	0	0	Month-to-month	1
120	1	1	One year	1
121	0	0	Month-to-month	0
122	0	0	Month-to-month	1
123	0	0	Month-to-month	0
124	0	0	Month-to-month	0
125	1	0	Two year	1
126	0	0	Month-to-month	1
127	0	0	Two year	1
128	0	0	Month-to-month	0
129	1	1	One year	1
130	0	1	Month-to-month	1
131	1	1	Month-to-month	1
132	0	0	Two year	0
133	0	1	Month-to-month	1
134	0	0	Month-to-month	0
135	0	0	Two year	1
136	0	0	Month-to-month	1

137	0	0	Two year	0
138	0	0	Two year	1
139	0	0	Month-to-month	1
140	1	1	Two year	1
141	0	1	Month-to-month	0
142	1	1	Two year	1
143	0	0	One year	1
144	0	0	Two year	0
145	1	0	Two year	1
146	0	0	One year	0
147	0	0	Month-to-month	1
148	1	0	One year	0
149	0	1	Month-to-month	1
150	1	1	Month-to-month	1
151	1	1	Month-to-month	0
152	1	1	One year	1
153	1	1	Two year	0
154	0	0	Month-to-month	0
155	0	1	Month-to-month	1
156	1	0	Month-to-month	1
157	0	0	One year	0
158	1	0	Two year	0
159	0	0	Two year	0
160	0	0	Month-to-month	1
161	0	0	Month-to-month	0
162	0	0	Month-to-month	1
163	0	1	Two year	1
164	0	0	One year	0
165	0	0	Two year	0
166	0	0	Month-to-month	1
167	1	1	Two year	1
168	0	1	Month-to-month	1
169	0	0	Month-to-month	0
170	0	0	One year	1
171	1	1	Month-to-month	1
172	1	1	Two year	0
173	1	1	One year	1
174	0	0	One year	0
175	0	0	Month-to-month	0
176	0	0	Month-to-month	1
177	0	0	Month-to-month	0
178	1	1	Month-to-month	1
179	0	0	One year	1
180	0	0	Month-to-month	0
181	0	0	Month-to-month	0
182	0	1	Month-to-month	0
183	1	1	One year	0
184	0	0	Month-to-month	1

185	0	0	Month-to-month	1
186	0	0	Month-to-month	1
187	0	0	Month-to-month	0
188	0	0	One year	0
189	0	0	Month-to-month	0
190	0	1	One year	1
191	0	1	Month-to-month	1
192	0	0	Two year	0
193	1	1	Two year	0
194	0	0	Two year	0
195	1	0	Month-to-month	1
196	0	0	Two year	1
197	1	1	Month-to-month	1
198	1	1	Two year	1
199	0	0	Month-to-month	0
200	1	1	One year	1
201	0	0	Month-to-month	1
202	1	1	Two year	0
203	1	0	Month-to-month	1
204	0	0	Month-to-month	0
205	0	0	One year	1
206	0	1	Two year	1
207	0	1	Month-to-month	0
208	1	1	Month-to-month	1
209	1	1	One year	1
210	0	0	Month-to-month	1
211	0	0	Month-to-month	0
212	0	0	Two year	0
213	0	0	One year	0
214	0	1	Month-to-month	0
215	1	1	Month-to-month	1
216	0	0	Two year	0
217	1	0	Two year	1
218	1	1	Two year	1
219	1	0	Month-to-month	1
220	0	0	Month-to-month	1
221	0	0	Two year	0
222	0	0	One year	1
223	0	0	Month-to-month	0
224	0	0	One year	1
225	1	1	One year	1
226	1	1	One year	1
227	1	0	Month-to-month	0
228	0	1	Month-to-month	1
229	1	1	Two year	1
230	1	1	Two year	1
231	0	1	Month-to-month	1
232	0	1	Month-to-month	1

233	0	0	Two year	0
234	0	0	Month-to-month	0
235	0	0	Month-to-month	1
236	0	0	Two year	1
237	0	0	Month-to-month	1
238	1	1	Month-to-month	1
239	0	0	Two year	0
240	1	1	Two year	0
241	1	1	Two year	0
242	1	1	One year	1
243	0	1	Month-to-month	0
244	0	0	Month-to-month	1
245	0	0	Month-to-month	0
246	0	1	One year	0
247	0	0	Month-to-month	1
248	0	0	Month-to-month	1
249	0	1	One year	1
250	1	0	One year	1
251	0	0	Month-to-month	0
252	1	0	Month-to-month	0
253	1	1	One year	0
254	0	0	Month-to-month	1
255	1	1	Two year	1
256	1	1	Two year	0
257	1	1	One year	0
258	0	0	Month-to-month	1
259	0	1	Month-to-month	1
260	0	1	Month-to-month	1
261	1	1	Month-to-month	1
262	0	1	Month-to-month	1
263	0	1	Two year	1
264	1	1	One year	0
265	1	1	Two year	0
266	0	0	Two year	0
267	1	1	Month-to-month	1
268	0	0	Two year	0
269	0	0	Two year	1
270	1	1	Month-to-month	1
271	0	0	Two year	1
272	0	0	Month-to-month	0
273	1	1	Month-to-month	0
274	0	0	Month-to-month	0
275	0	0	Month-to-month	1
276	1	1	Month-to-month	1
277	0	1	Month-to-month	1
278	1	1	Month-to-month	1
279	0	0	Month-to-month	0
280	0	0	Month-to-month	0

281	0	0	Month-to-month	0
282	0	0	Month-to-month	0
283	0	0	Month-to-month	0
284	1	1	Month-to-month	0
285	0	0	One year	1
286	0	0	Month-to-month	1
287	0	0	Month-to-month	0
288	0	0	Month-to-month	1
289	0	0	Month-to-month	1
290	0	0	Month-to-month	1
291	0	0	One year	0
292	0	0	One year	0
293	1	1	Month-to-month	1
294	0	0	Month-to-month	0
295	0	0	Month-to-month	0
296	0	0	Two year	0
297	1	1	Month-to-month	1
298	1	1	Month-to-month	1
299	0	0	Month-to-month	1
300	1	1	One year	1
301	1	1	Month-to-month	1
302	0	1	Month-to-month	1
303	1	1	Two year	0
304	0	0	Month-to-month	1
305	0	0	Two year	0
306	0	0	Month-to-month	1
307	1	1	Two year	0
308	1	1	Month-to-month	0
309	1	1	One year	1
310	0	0	Month-to-month	1
311	0	1	Month-to-month	1
312	1	1	Two year	0
313	0	0	Month-to-month	1
314	1	0	Month-to-month	1
315	1	1	One year	0
316	0	0	Two year	1
317	1	1	One year	0
318	1	1	Month-to-month	1
319	1	0	Month-to-month	1
320	1	1	One year	0
321	1	1	Two year	1
322	0	0	Month-to-month	1
323	0	0	One year	0
324	1	1	Two year	1
325	1	1	Month-to-month	1
326	1	0	Month-to-month	1
327	0	0	Month-to-month	1
328	1	0	Month-to-month	1

329	0	0	Month-to-month	1
330	0	0	Two year	1
331	0	0	One year	1
332	1	0	One year	1
333	0	0	Month-to-month	1
334	0	0	Month-to-month	0
335	0	1	One year	1
336	1	1	Two year	1
337	1	1	Two year	1
338	1	1	Month-to-month	1
339	1	1	Month-to-month	1
340	0	0	Month-to-month	0
341	1	1	Two year	0
342	0	0	Month-to-month	1
343	0	0	One year	0
344	0	0	One year	1
345	0	0	Month-to-month	1
346	1	1	Month-to-month	1
347	0	0	Two year	0
348	1	1	Month-to-month	1
349	0	1	One year	0
350	0	0	Two year	1
351	0	0	One year	0
352	1	1	Month-to-month	1
353	0	0	Month-to-month	1
354	1	0	Month-to-month	1
355	0	1	Month-to-month	1
356	0	0	Month-to-month	1
357	1	1	Two year	1
358	0	0	Month-to-month	0
359	1	1	One year	0
360	0	0	Month-to-month	0
361	1	1	Two year	1
362	0	0	One year	0
363	0	0	Two year	1
364	0	0	Month-to-month	1
365	1	1	Month-to-month	0
366	0	1	Month-to-month	1
367	0	0	Month-to-month	0
368	1	1	One year	1
369	1	1	Two year	1
370	0	0	One year	0
371	1	0	Month-to-month	1
372	0	0	Two year	0
373	0	1	One year	1
374	1	1	Month-to-month	1
375	1	1	One year	0
376	0	0	Month-to-month	0

377	1	1	Month-to-month	1
378	1	1	Two year	0
379	0	0	One year	0
380	0	0	One year	1
381	0	0	Month-to-month	0
382	1	1	Two year	1
383	0	1	Month-to-month	1
384	1	1	Two year	1
385	0	0	Month-to-month	0
386	0	0	Month-to-month	1
387	0	1	One year	1
388	0	1	Month-to-month	1
389	0	0	Month-to-month	0
390	1	1	Month-to-month	1
391	1	1	Month-to-month	1
392	0	0	Month-to-month	1
393	0	0	Month-to-month	0
394	1	1	Month-to-month	1
395	1	1	Two year	1
396	1	1	Month-to-month	1
397	0	0	Month-to-month	1
398	1	1	Month-to-month	1
399	0	0	One year	0
400	0	0	One year	0
401	0	0	One year	0
402	1	1	Month-to-month	1
403	0	0	One year	0
404	0	0	Two year	1
405	0	0	Two year	1
406	1	0	One year	1
407	1	1	Month-to-month	1
408	0	0	Month-to-month	1
409	0	0	Month-to-month	1
410	0	0	Month-to-month	1
411	0	0	One year	1
412	0	0	Month-to-month	1
413	0	0	Month-to-month	1
414	0	0	Month-to-month	1
415	0	0	Month-to-month	0
416	0	1	Two year	1
417	0	0	Two year	1
418	0	1	Month-to-month	0
419	0	0	Month-to-month	1
420	0	0	Month-to-month	1
421	0	0	Month-to-month	1
422	0	1	One year	0
423	0	0	One year	0
424	0	0	Month-to-month	0

425	0	0	Month-to-month	0
426	1	1	One year	1
427	0	1	Month-to-month	0
428	0	0	Month-to-month	1
429	0	0	One year	0
430	0	0	Month-to-month	1
431	1	1	Two year	1
432	0	0	Month-to-month	0
433	0	0	Month-to-month	1
434	0	0	Two year	1
435	1	0	Month-to-month	1
436	0	0	One year	0
437	1	1	Two year	1
438	0	1	Month-to-month	1
439	0	0	Month-to-month	0
440	1	1	Month-to-month	1
441	1	1	Month-to-month	0
442	1	1	One year	1
443	0	1	Month-to-month	0
444	0	1	Month-to-month	0
445	1	1	Month-to-month	1
446	0	0	Month-to-month	0
447	0	0	Two year	1
448	1	1	Month-to-month	1
449	1	1	Two year	0
450	0	0	One year	0
451	0	1	Month-to-month	1
452	1	1	Month-to-month	1
453	0	1	Month-to-month	1
454	0	0	Two year	0
455	1	1	Month-to-month	1
456	1	0	One year	0
457	1	1	Two year	0
458	0	0	Month-to-month	0
459	0	0	Month-to-month	1
460	0	0	Month-to-month	0
461	1	1	Month-to-month	1
462	1	1	Month-to-month	0
463	1	1	Month-to-month	1
464	1	1	Two year	1
465	0	1	Two year	1
466	1	1	Two year	0
467	1	0	One year	1
468	0	0	Two year	0
469	0	1	Month-to-month	0
470	0	0	One year	0
471	0	1	Month-to-month	1
472	1	1	Month-to-month	1

473	0	0	Month-to-month	0
474	0	0	Month-to-month	1
475	0	0	Month-to-month	1
476	1	1	Month-to-month	1
477	1	0	Month-to-month	1
478	1	1	Month-to-month	1
479	0	0	Month-to-month	0
480	0	0	Two year	0
481	0	1	Month-to-month	1
482	0	1	Month-to-month	1
483	1	1	One year	1
484	1	0	Month-to-month	1
485	0	1	Two year	1
486	1	1	Month-to-month	1
487	1	1	Two year	1
488	1	0	Two year	1
489	0	0	Month-to-month	1
490	1	1	Two year	1
491	1	0	Month-to-month	1
492	0	0	Month-to-month	1
493	0	1	One year	0
494	0	0	Month-to-month	0
495	0	1	One year	1
496	0	0	Month-to-month	0
497	0	0	Two year	0
498	0	0	Month-to-month	0
499	0	1	Month-to-month	1
...
6543	0	0	One year	0
6544	1	1	Month-to-month	1
6545	1	1	Month-to-month	1
6546	0	0	Month-to-month	1
6547	0	0	Two year	1
6548	0	0	Month-to-month	0
6549	0	1	Month-to-month	1
6550	1	1	Month-to-month	1
6551	1	1	One year	1
6552	0	1	Month-to-month	1
6553	1	1	Two year	1
6554	0	0	Month-to-month	0
6555	0	0	One year	0
6556	0	0	One year	0
6557	1	1	Month-to-month	1
6558	0	0	Month-to-month	0
6559	1	1	Month-to-month	1
6560	0	0	One year	0
6561	0	0	Month-to-month	1
6562	1	1	Month-to-month	1

6563	0	0	Month-to-month	1
6564	0	0	Month-to-month	0
6565	1	1	Month-to-month	1
6566	1	1	Two year	1
6567	1	1	Month-to-month	1
6568	0	0	Two year	0
6569	0	0	Two year	0
6570	0	0	Month-to-month	1
6571	0	0	One year	0
6572	1	1	Two year	1
6573	0	1	One year	0
6574	1	0	Month-to-month	1
6575	0	0	Month-to-month	1
6576	0	0	Month-to-month	0
6577	1	0	Two year	0
6578	0	1	One year	0
6579	1	1	Two year	0
6580	1	1	One year	0
6581	1	0	One year	0
6582	1	1	Two year	1
6583	0	0	One year	1
6584	0	0	Two year	0
6585	0	0	One year	0
6586	0	0	Two year	1
6587	1	1	Month-to-month	1
6588	0	0	Two year	0
6589	0	0	Two year	0
6590	0	0	Month-to-month	1
6591	0	0	Month-to-month	1
6592	1	0	One year	0
6593	1	1	Month-to-month	1
6594	0	0	Month-to-month	1
6595	1	1	Two year	1
6596	1	0	One year	0
6597	1	1	Month-to-month	1
6598	1	0	Two year	1
6599	1	0	Month-to-month	0
6600	0	0	Month-to-month	0
6601	1	1	Two year	0
6602	1	0	Month-to-month	1
6603	1	0	Month-to-month	1
6604	0	0	Month-to-month	1
6605	1	1	One year	0
6606	1	1	Month-to-month	1
6607	0	0	Month-to-month	1
6608	0	0	One year	1
6609	0	0	Month-to-month	1
6610	1	0	Month-to-month	1

6611	1	0	One year	0
6612	0	0	Month-to-month	1
6613	0	0	Month-to-month	0
6614	0	0	Two year	0
6615	0	0	Month-to-month	1
6616	1	1	Month-to-month	1
6617	1	1	One year	1
6618	0	0	Month-to-month	1
6619	0	0	Month-to-month	0
6620	0	1	Month-to-month	1
6621	0	0	Two year	0
6622	0	1	Month-to-month	0
6623	0	0	Month-to-month	1
6624	1	1	Two year	1
6625	1	0	Month-to-month	1
6626	1	1	Month-to-month	1
6627	0	0	One year	0
6628	1	1	One year	1
6629	1	1	Two year	1
6630	0	1	Month-to-month	1
6631	0	0	Month-to-month	0
6632	0	0	Month-to-month	0
6633	0	0	Month-to-month	1
6634	1	1	Month-to-month	1
6635	0	0	One year	0
6636	1	0	One year	0
6637	0	0	One year	1
6638	0	0	Two year	0
6639	1	1	One year	1
6640	1	0	One year	0
6641	0	0	Month-to-month	1
6642	1	1	Month-to-month	1
6643	0	0	Month-to-month	1
6644	1	1	One year	1
6645	0	0	Month-to-month	0
6646	0	0	One year	0
6647	1	1	Two year	0
6648	0	0	Month-to-month	0
6649	0	0	Month-to-month	0
6650	0	0	Month-to-month	0
6651	0	0	Month-to-month	0
6652	0	0	Two year	1
6653	0	0	Month-to-month	1
6654	1	0	Month-to-month	1
6655	0	0	Two year	0
6656	0	0	Two year	0
6657	0	0	One year	0
6658	0	0	Month-to-month	1

6659	1	1	Two year	0
6660	0	0	Month-to-month	1
6661	1	1	Two year	0
6662	0	0	One year	0
6663	1	0	Month-to-month	1
6664	1	1	One year	1
6665	0	0	Month-to-month	0
6666	1	1	Month-to-month	0
6667	0	1	Month-to-month	1
6668	1	1	Month-to-month	1
6669	1	1	Month-to-month	1
6670	1	0	Two year	0
6671	1	1	Two year	1
6672	0	0	Two year	0
6673	0	0	Month-to-month	0
6674	0	0	Month-to-month	0
6675	0	1	One year	1
6676	1	0	Month-to-month	1
6677	0	0	Month-to-month	0
6678	0	0	Two year	0
6679	0	0	Two year	0
6680	1	0	Two year	1
6681	1	0	Month-to-month	0
6682	1	0	Two year	1
6683	0	1	One year	0
6684	0	0	One year	1
6685	0	0	Month-to-month	1
6686	1	1	Two year	1
6687	0	0	Month-to-month	0
6688	0	0	Two year	0
6689	1	1	One year	1
6690	1	0	Two year	0
6691	0	0	One year	0
6692	0	1	Month-to-month	1
6693	1	1	Month-to-month	1
6694	0	1	Two year	1
6695	0	0	Two year	0
6696	0	1	Month-to-month	0
6697	1	1	One year	1
6698	0	1	One year	1
6699	0	0	Two year	1
6700	1	1	Two year	1
6701	1	1	One year	0
6702	0	1	Month-to-month	1
6703	1	1	Month-to-month	1
6704	1	1	One year	1
6705	0	0	Month-to-month	1
6706	0	0	Month-to-month	0

6707	0	0	Two year	1
6708	0	0	Month-to-month	1
6709	1	1	One year	0
6710	1	0	One year	0
6711	1	1	Month-to-month	1
6712	1	0	Month-to-month	0
6713	0	1	Month-to-month	1
6714	1	1	Month-to-month	0
6715	1	0	Month-to-month	1
6716	0	0	Month-to-month	1
6717	1	1	Month-to-month	0
6718	0	0	Month-to-month	0
6719	0	0	Two year	0
6720	1	1	Two year	1
6721	1	1	Two year	0
6722	1	1	One year	1
6723	0	0	Two year	0
6724	1	0	Two year	1
6725	0	0	Month-to-month	0
6726	0	0	Month-to-month	0
6727	1	1	Month-to-month	0
6728	1	1	Two year	0
6729	1	1	Two year	1
6730	0	0	One year	0
6731	0	0	Two year	1
6732	0	1	Month-to-month	1
6733	0	0	Month-to-month	0
6734	0	0	Month-to-month	0
6735	1	1	Two year	0
6736	0	0	Two year	1
6737	1	1	Two year	1
6738	0	0	Month-to-month	0
6739	0	1	Month-to-month	1
6740	0	0	Month-to-month	1
6741	1	1	Month-to-month	1
6742	1	1	Two year	0
6743	0	0	Month-to-month	1
6744	1	0	One year	0
6745	1	1	Month-to-month	1
6746	0	0	Month-to-month	0
6747	0	0	One year	0
6748	0	1	Month-to-month	1
6749	1	0	One year	0
6750	0	0	One year	1
6751	0	0	Two year	0
6752	0	1	Two year	0
6753	0	1	One year	0
6754	0	0	Two year	1

6755	0	0	Month-to-month	0
6756	1	1	Month-to-month	1
6757	1	1	One year	0
6758	0	0	Month-to-month	1
6759	0	1	One year	1
6760	0	0	Month-to-month	1
6761	0	0	Month-to-month	1
6762	1	0	Month-to-month	0
6763	0	1	One year	1
6764	0	0	Month-to-month	1
6765	0	0	Two year	1
6766	0	0	One year	0
6767	0	0	Month-to-month	0
6768	1	1	Two year	0
6769	0	0	Two year	0
6770	1	0	Month-to-month	1
6771	0	0	Month-to-month	1
6772	0	1	One year	1
6773	1	1	Month-to-month	1
6774	0	0	Month-to-month	0
6775	1	1	Two year	1
6776	1	1	Two year	1
6777	0	0	Month-to-month	1
6778	0	0	Two year	1
6779	0	0	Month-to-month	1
6780	0	0	Month-to-month	0
6781	0	0	Month-to-month	0
6782	0	0	Month-to-month	0
6783	1	0	Two year	0
6784	0	0	Month-to-month	0
6785	1	1	Two year	1
6786	0	0	Month-to-month	0
6787	1	1	Month-to-month	1
6788	0	0	Month-to-month	0
6789	0	0	Month-to-month	1
6790	0	0	Two year	1
6791	1	0	Month-to-month	1
6792	0	0	One year	0
6793	1	1	Two year	1
6794	0	0	Two year	0
6795	0	0	Month-to-month	1
6796	0	0	Month-to-month	0
6797	0	0	Month-to-month	1
6798	0	0	Month-to-month	1
6799	1	1	Two year	1
6800	1	1	One year	0
6801	0	1	One year	1
6802	1	0	Month-to-month	1

6803	0	0	One year	1
6804	0	1	Month-to-month	1
6805	1	1	One year	1
6806	0	0	Two year	0
6807	0	0	Two year	1
6808	1	1	Two year	1
6809	0	0	Month-to-month	0
6810	0	0	Month-to-month	1
6811	1	1	Month-to-month	1
6812	0	0	Month-to-month	1
6813	0	1	Two year	0
6814	0	1	Month-to-month	0
6815	0	0	Two year	0
6816	0	0	Month-to-month	1
6817	0	0	Two year	0
6818	0	1	Two year	0
6819	1	1	Month-to-month	1
6820	1	0	Month-to-month	0
6821	1	1	Month-to-month	1
6822	0	1	Month-to-month	1
6823	0	0	Month-to-month	1
6824	0	0	Month-to-month	1
6825	0	0	Month-to-month	1
6826	0	0	Month-to-month	1
6827	1	1	Month-to-month	1
6828	0	0	Two year	0
6829	0	0	Two year	0
6830	0	0	Two year	1
6831	0	1	Month-to-month	1
6832	0	0	Two year	0
6833	1	1	Month-to-month	1
6834	0	1	Two year	1
6835	1	0	One year	1
6836	0	1	Month-to-month	1
6837	1	0	Month-to-month	1
6838	1	1	Month-to-month	1
6839	1	1	Month-to-month	1
6840	0	0	Month-to-month	1
6841	0	0	Month-to-month	1
6842	0	0	One year	1
6843	0	0	Month-to-month	0
6844	1	0	Month-to-month	0
6845	0	0	Month-to-month	1
6846	0	0	Month-to-month	1
6847	1	0	Month-to-month	0
6848	1	1	Month-to-month	0
6849	0	0	Month-to-month	1
6850	0	0	Two year	0

6851	1	0	Two year	1
6852	0	0	Month-to-month	1
6853	1	1	Month-to-month	0
6854	0	0	Month-to-month	0
6855	0	1	One year	1
6856	0	0	Two year	0
6857	1	1	Month-to-month	1
6858	0	1	Month-to-month	1
6859	1	1	Two year	0
6860	1	1	Month-to-month	1
6861	1	0	Month-to-month	1
6862	0	1	Month-to-month	1
6863	0	0	One year	1
6864	0	0	Month-to-month	0
6865	0	1	Two year	0
6866	1	1	Month-to-month	1
6867	0	0	Two year	0
6868	1	1	Month-to-month	1
6869	0	0	One year	1
6870	0	0	Month-to-month	1
6871	1	0	Month-to-month	0
6872	0	0	One year	1
6873	1	1	Two year	1
6874	0	0	Month-to-month	1
6875	0	0	Two year	0
6876	1	1	One year	1
6877	0	0	Month-to-month	0
6878	1	1	Month-to-month	1
6879	1	0	Month-to-month	1
6880	0	0	Two year	0
6881	0	0	Month-to-month	1
6882	1	0	One year	1
6883	1	1	Month-to-month	1
6884	0	1	Month-to-month	1
6885	0	0	Month-to-month	1
6886	1	1	Month-to-month	0
6887	0	0	Two year	0
6888	1	0	Month-to-month	1
6889	1	0	Month-to-month	1
6890	0	1	One year	1
6891	0	0	Month-to-month	1
6892	1	1	One year	1
6893	0	0	Month-to-month	0
6894	1	1	Month-to-month	1
6895	0	1	Two year	0
6896	0	0	Month-to-month	0
6897	1	1	Month-to-month	1
6898	1	1	One year	1

6899	0	0	Month-to-month	1
6900	1	1	One year	1
6901	1	0	One year	1
6902	0	0	One year	1
6903	1	0	One year	1
6904	1	0	Month-to-month	1
6905	1	1	Month-to-month	1
6906	0	0	Two year	1
6907	0	0	Month-to-month	0
6908	1	0	Month-to-month	0
6909	0	0	Month-to-month	1
6910	1	1	Two year	1
6911	0	0	Two year	1
6912	1	0	Month-to-month	1
6913	1	1	One year	1
6914	1	1	Month-to-month	1
6915	1	1	Two year	1
6916	0	0	Two year	0
6917	0	0	Two year	1
6918	1	1	One year	1
6919	0	1	Month-to-month	0
6920	0	0	Two year	0
6921	0	0	Month-to-month	1
6922	0	0	Month-to-month	0
6923	0	1	One year	0
6924	0	0	Month-to-month	1
6925	0	0	One year	0
6926	0	0	Month-to-month	1
6927	0	0	Month-to-month	0
6928	0	0	One year	1
6929	0	0	Month-to-month	0
6930	0	0	Month-to-month	1
6931	1	1	One year	0
6932	0	1	Month-to-month	1
6933	0	0	Month-to-month	1
6934	1	1	Two year	1
6935	1	1	Two year	1
6936	0	0	Month-to-month	1
6937	0	0	Month-to-month	1
6938	0	1	Two year	1
6939	0	1	One year	1
6940	0	1	Two year	0
6941	0	1	One year	1
6942	0	0	Two year	1
6943	0	0	Month-to-month	0
6944	0	0	Month-to-month	1
6945	1	1	Two year	0
6946	0	1	Month-to-month	0

6947	1	1	One year	1
6948	1	1	One year	1
6949	0	0	One year	1
6950	0	0	Month-to-month	1
6951	0	0	Two year	1
6952	1	1	Month-to-month	1
6953	0	1	Month-to-month	1
6954	0	0	Month-to-month	1
6955	0	0	Month-to-month	1
6956	0	0	Two year	1
6957	1	0	Month-to-month	0
6958	0	0	Two year	1
6959	1	1	One year	1
6960	1	0	Month-to-month	1
6961	0	0	Month-to-month	1
6962	1	1	Month-to-month	1
6963	1	1	Month-to-month	1
6964	1	1	One year	1
6965	0	0	Month-to-month	1
6966	1	0	One year	1
6967	1	0	Month-to-month	1
6968	0	0	Month-to-month	1
6969	0	0	Month-to-month	0
6970	0	0	Month-to-month	1
6971	1	1	Month-to-month	0
6972	1	1	One year	1
6973	1	0	One year	1
6974	1	1	One year	1
6975	0	0	Two year	0
6976	1	0	Two year	1
6977	0	0	Month-to-month	1
6978	1	0	Two year	0
6979	0	0	Month-to-month	0
6980	1	0	Month-to-month	1
6981	1	0	Month-to-month	1
6982	0	1	Two year	1
6983	0	0	Month-to-month	0
6984	0	0	Month-to-month	0
6985	0	0	One year	1
6986	1	0	Month-to-month	1
6987	1	1	One year	1
6988	1	0	Month-to-month	1
6989	1	1	One year	0
6990	1	1	Month-to-month	1
6991	1	1	Month-to-month	0
6992	1	1	One year	0
6993	1	0	Month-to-month	1
6994	0	0	One year	1

6995	1	1	Two year	0
6996	0	1	One year	1
6997	0	0	Month-to-month	1
6998	0	1	Month-to-month	1
6999	0	0	Month-to-month	1
7000	0	0	One year	0
7001	0	0	Month-to-month	1
7002	1	1	Two year	1
7003	0	0	Month-to-month	0
7004	0	1	Month-to-month	1
7005	0	0	One year	0
7006	1	1	Month-to-month	1
7007	1	1	Two year	1
7008	0	0	Month-to-month	1
7009	0	0	Month-to-month	1
7010	0	0	Month-to-month	1
7011	0	0	Month-to-month	1
7012	1	1	Two year	1
7013	1	0	Month-to-month	1
7014	1	0	Month-to-month	1
7015	1	0	Month-to-month	1
7016	0	0	Month-to-month	0
7017	0	0	Two year	0
7018	0	0	Month-to-month	1
7019	0	0	Two year	0
7020	0	0	Month-to-month	1
7021	1	0	One year	1
7022	1	1	One year	1
7023	1	1	Month-to-month	1
7024	0	0	Month-to-month	1
7025	0	1	Month-to-month	1
7026	0	0	Month-to-month	1
7027	1	1	Month-to-month	0
7028	1	0	Two year	0
7029	1	1	Month-to-month	1
7030	0	0	Month-to-month	1
7031	0	0	One year	0
7032	0	0	Month-to-month	1
7033	0	0	Month-to-month	1
7034	1	0	Month-to-month	1
7035	1	0	Month-to-month	1
7036	1	1	One year	0
7037	0	0	Two year	1
7038	1	1	One year	1
7039	1	1	One year	1
7040	0	0	Month-to-month	1
7041	0	0	Month-to-month	1
7042	1	1	Two year	1

	monthly_charges	total_charges	churn	payment_type \
0	29.85	29.85	0	Electronic check
1	56.95	1889.50	0	Mailed check
2	53.85	108.15	1	Mailed check
3	42.30	1840.75	0	Bank transfer
4	70.70	151.65	1	Electronic check
5	99.65	820.50	1	Electronic check
6	89.10	1949.40	0	Credit card
7	29.75	301.90	0	Mailed check
8	104.80	3046.05	1	Electronic check
9	56.15	3487.95	0	Bank transfer
10	49.95	587.45	0	Mailed check
11	18.95	326.80	0	Credit card
12	100.35	5681.10	0	Credit card
13	103.70	5036.30	1	Bank transfer
14	105.50	2686.05	0	Electronic check
15	113.25	7895.15	0	Credit card
16	20.65	1022.95	0	Mailed check
17	106.70	7382.25	0	Bank transfer
18	55.20	528.35	1	Credit card
19	90.05	1862.90	0	Electronic check
20	39.65	39.65	1	Electronic check
21	19.80	202.25	0	Bank transfer
22	20.15	20.15	1	Mailed check
23	59.90	3505.10	0	Credit card
24	59.60	2970.30	0	Credit card
25	55.30	1530.60	0	Bank transfer
26	99.35	4749.15	1	Electronic check
27	30.20	30.20	1	Electronic check
28	90.25	6369.45	0	Credit card
29	64.70	1093.10	1	Mailed check
30	96.35	6766.95	0	Credit card
31	95.50	181.65	0	Credit card
32	66.15	1874.45	0	Mailed check
33	20.20	20.20	0	Bank transfer
34	45.25	45.25	0	Bank transfer
35	99.90	7251.70	0	Bank transfer
36	69.70	316.90	1	Electronic check
37	74.80	3548.30	0	Credit card
38	106.35	3549.25	1	Electronic check
39	97.85	1105.40	1	Bank transfer
40	49.55	475.70	0	Mailed check
41	69.20	4872.35	0	Credit card
42	20.75	418.25	0	Mailed check
43	79.85	4861.45	0	Credit card
44	76.20	981.45	0	Electronic check
45	84.50	3906.70	0	Electronic check

46	49.25	97.00	0	Mailed check
47	80.65	144.15	1	Electronic check
48	79.75	4217.80	0	Credit card
49	64.15	4254.10	0	Credit card
50	90.25	3838.75	0	Electronic check
51	99.10	1426.40	1	Credit card
52	69.50	1752.65	0	Credit card
53	80.65	633.30	1	Credit card
54	74.85	4456.35	0	Credit card
55	95.45	1752.55	1	Electronic check
56	99.65	6311.20	0	Credit card
57	108.45	7076.35	0	Electronic check
58	24.95	894.30	0	Credit card
59	107.50	7853.70	0	Credit card
60	100.50	4707.10	0	Electronic check
61	89.90	5450.70	0	Bank transfer
62	42.10	2962.00	0	Bank transfer
63	54.40	957.10	0	Credit card
64	94.40	857.25	1	Electronic check
65	75.30	244.10	0	Electronic check
66	78.90	3650.35	0	Electronic check
67	79.20	2497.20	0	Mailed check
68	20.15	930.90	0	Bank transfer
69	79.85	887.35	0	Mailed check
70	49.05	49.05	0	Mailed check
71	20.40	1090.65	0	Electronic check
72	111.60	7099.00	0	Bank transfer
73	24.25	1424.60	0	Bank transfer
74	64.50	177.40	0	Bank transfer
75	110.50	6139.50	0	Electronic check
76	55.65	2688.85	0	Credit card
77	54.65	482.25	0	Mailed check
78	74.75	2111.30	0	Electronic check
79	25.90	1216.60	0	Credit card
80	79.35	79.35	1	Electronic check
81	50.55	565.35	0	Electronic check
82	75.15	496.90	1	Bank transfer
83	103.80	4327.50	0	Bank transfer
84	20.15	973.35	0	Bank transfer
85	99.30	918.75	0	Credit card
86	62.15	2215.45	0	Bank transfer
87	20.65	1057.00	0	Bank transfer
88	19.95	927.10	0	Mailed check
89	33.75	1009.25	0	Mailed check
90	82.05	2570.20	0	Bank transfer
91	74.70	74.70	0	Electronic check
92	84.00	5714.25	0	Mailed check
93	111.05	7107.00	0	Credit card

94	100.90	7459.05	0	Bank transfer
95	78.95	927.35	1	Electronic check
96	66.85	4748.70	0	Credit card
97	21.05	113.85	1	Mailed check
98	21.00	1107.20	0	Bank transfer
99	98.50	2514.50	1	Electronic check
100	20.20	20.20	0	Mailed check
101	19.45	19.45	0	Electronic check
102	95.00	3605.60	0	Bank transfer
103	45.55	3027.25	0	Bank transfer
104	110.00	7611.85	1	Bank transfer
105	24.30	100.20	0	Mailed check
106	104.15	7303.05	0	Electronic check
107	30.15	927.65	0	Mailed check
108	94.35	3921.30	0	Mailed check
109	19.40	1363.25	0	Credit card
110	96.75	5238.90	1	Electronic check
111	57.95	3042.25	0	Credit card
112	91.65	3954.10	0	Electronic check
113	76.50	2868.15	1	Electronic check
114	54.60	3423.50	0	Electronic check
115	89.85	248.40	0	Electronic check
116	31.05	1126.35	0	Bank transfer
117	100.25	1064.65	1	Electronic check
118	20.65	835.15	0	Mailed check
119	85.20	2151.60	0	Credit card
120	99.80	5515.45	0	Credit card
121	20.70	112.75	0	Mailed check
122	74.40	229.55	1	Electronic check
123	50.70	350.35	0	Mailed check
124	20.85	62.90	0	Mailed check
125	88.95	3027.65	0	Electronic check
126	78.05	2135.50	1	Electronic check
127	23.55	1723.95	0	Bank transfer
128	19.75	19.75	0	Mailed check
129	56.45	3985.35	0	Electronic check
130	85.95	1215.65	0	Electronic check
131	58.60	1502.65	1	Credit card
132	50.55	3260.10	0	Bank transfer
133	35.45	35.45	1	Electronic check
134	44.35	81.25	1	Electronic check
135	25.70	1188.20	0	Credit card
136	75.00	1778.50	0	Bank transfer
137	20.20	1277.75	0	Mailed check
138	19.60	1170.55	0	Mailed check
139	70.45	70.45	1	Mailed check
140	88.05	6425.65	0	Credit card
141	71.15	563.65	1	Electronic check

142	101.05	5971.25	0	Bank transfer
143	84.30	5289.05	0	Credit card
144	23.95	1756.20	0	Bank transfer
145	99.05	6416.70	0	Credit card
146	19.60	61.35	0	Mailed check
147	45.65	45.65	1	Electronic check
148	64.50	1929.95	0	Credit card
149	69.50	1071.40	0	Mailed check
150	68.55	564.35	0	Electronic check
151	95.00	655.50	1	Mailed check
152	108.15	7930.55	0	Credit card
153	86.10	5215.25	0	Electronic check
154	19.70	113.50	0	Mailed check
155	80.90	1152.80	0	Bank transfer
156	84.15	1821.95	0	Bank transfer
157	20.15	419.90	0	Mailed check
158	64.25	1024.00	0	Mailed check
159	25.70	251.60	0	Bank transfer
160	56.00	764.55	0	Electronic check
161	82.40	1592.35	1	Electronic check
162	69.70	135.20	0	Electronic check
163	73.90	3958.25	0	Bank transfer
164	20.60	233.90	0	Mailed check
165	19.90	1363.45	0	Mailed check
166	70.90	273.00	1	Bank transfer
167	89.05	6254.45	0	Bank transfer
168	45.30	2651.20	1	Electronic check
169	20.40	321.40	0	Electronic check
170	84.25	3539.25	0	Bank transfer
171	104.40	242.80	1	Electronic check
172	81.95	1181.75	0	Mailed check
173	94.85	5000.20	1	Bank transfer
174	20.55	654.55	0	Bank transfer
175	24.70	780.20	0	Electronic check
176	74.45	1145.70	1	Mailed check
177	76.45	503.60	1	Bank transfer
178	105.35	1559.25	0	Bank transfer
179	20.55	1252.00	0	Credit card
180	29.95	29.95	1	Bank transfer
181	45.30	45.30	0	Mailed check
182	84.50	662.65	1	Bank transfer
183	74.75	2453.30	0	Credit card
184	79.25	1111.65	1	Electronic check
185	24.80	24.80	1	Electronic check
186	51.80	1023.85	0	Mailed check
187	30.40	82.15	0	Electronic check
188	19.65	244.80	0	Electronic check
189	56.60	2379.10	0	Credit card

190	71.90	3173.35	0	Credit card
191	91.00	531.00	1	Electronic check
192	19.75	1375.40	0	Bank transfer
193	109.70	8129.30	0	Credit card
194	19.30	1192.70	0	Credit card
195	96.55	1901.65	0	Electronic check
196	24.10	587.40	0	Bank transfer
197	111.35	6519.75	0	Electronic check
198	112.25	8041.65	0	Bank transfer
199	20.75	20.75	0	Mailed check
200	101.90	2681.15	0	Credit card
201	80.05	1112.30	0	Credit card
202	105.55	7405.50	0	Electronic check
203	78.30	1033.95	0	Credit card
204	68.85	2958.95	0	Credit card
205	79.95	2684.85	0	Bank transfer
206	55.45	4179.20	0	Credit card
207	79.90	79.90	1	Electronic check
208	106.60	1934.45	1	Electronic check
209	102.45	6654.10	0	Credit card
210	46.00	84.50	1	Credit card
211	25.25	25.25	0	Electronic check
212	19.75	1124.20	0	Mailed check
213	20.00	540.05	0	Electronic check
214	86.80	1975.85	0	Electronic check
215	58.75	3437.45	0	Bank transfer
216	45.25	3139.80	0	Credit card
217	56.60	3789.20	0	Bank transfer
218	84.20	5324.50	0	Bank transfer
219	80.00	624.60	0	Bank transfer
220	70.15	268.35	1	Electronic check
221	24.75	1836.90	0	Bank transfer
222	20.20	20.20	0	Electronic check
223	50.05	179.35	1	Mailed check
224	19.35	219.35	0	Bank transfer
225	50.60	1288.75	0	Mailed check
226	81.15	2545.75	0	Mailed check
227	55.20	55.20	1	Mailed check
228	89.90	2723.15	0	Credit card
229	85.30	4107.25	0	Credit card
230	108.00	5760.65	0	Credit card
231	93.50	4747.50	0	Credit card
232	84.60	84.60	1	Mailed check
233	20.25	1566.90	0	Credit card
234	25.15	702.00	0	Electronic check
235	54.40	114.10	1	Mailed check
236	29.60	299.05	0	Mailed check
237	73.15	1305.95	0	Electronic check

238	95.00	1120.30	1	Electronic check
239	19.75	284.35	0	Mailed check
240	86.60	6350.50	0	Bank transfer
241	109.20	7878.30	0	Bank transfer
242	74.70	3187.65	0	Credit card
243	94.40	6126.15	0	Electronic check
244	54.80	731.30	0	Electronic check
245	75.35	273.40	0	Electronic check
246	65.00	2531.80	0	Mailed check
247	74.40	1074.30	1	Electronic check
248	48.55	48.55	1	Mailed check
249	99.00	4298.45	0	Electronic check
250	93.50	4619.55	0	Electronic check
251	70.40	147.15	1	Electronic check
252	40.20	40.20	1	Electronic check
253	83.70	2633.30	0	Credit card
254	19.85	193.05	0	Mailed check
255	59.55	4103.90	0	Electronic check
256	115.10	7008.15	0	Credit card
257	114.35	5791.10	0	Credit card
258	44.60	80.55	1	Credit card
259	45.00	1228.65	0	Electronic check
260	41.15	132.20	1	Electronic check
261	106.90	1364.30	1	Electronic check
262	89.85	4925.35	0	Electronic check
263	49.85	1520.10	0	Bank transfer
264	113.30	5032.25	0	Mailed check
265	88.10	5526.75	0	Mailed check
266	24.90	1195.25	0	Bank transfer
267	105.00	2007.25	0	Mailed check
268	19.35	1099.60	1	Mailed check
269	24.25	1732.95	0	Credit card
270	94.45	1511.20	1	Electronic check
271	59.75	3450.15	0	Electronic check
272	24.80	24.80	1	Bank transfer
273	107.05	2172.05	0	Electronic check
274	70.60	70.60	1	Mailed check
275	85.40	401.10	1	Electronic check
276	105.05	5624.85	1	Electronic check
277	64.95	1339.80	0	Bank transfer
278	55.00	771.95	0	Electronic check
279	50.55	244.75	0	Bank transfer
280	55.15	322.90	0	Mailed check
281	51.20	498.25	0	Electronic check
282	25.40	25.40	0	Mailed check
283	54.45	3687.75	0	Mailed check
284	95.15	1779.95	1	Mailed check
285	76.00	1783.60	0	Credit card

286	44.35	927.15	0	Electronic check
287	70.00	70.00	1	Electronic check
288	74.50	606.55	1	Electronic check
289	44.85	435.40	1	Credit card
290	76.10	1712.70	1	Electronic check
291	61.20	2021.20	0	Mailed check
292	86.80	1940.80	0	Mailed check
293	89.35	567.80	0	Electronic check
294	19.70	220.35	0	Mailed check
295	20.25	20.25	0	Mailed check
296	76.05	5436.45	0	Electronic check
297	100.80	3437.50	0	Electronic check
298	74.55	3015.75	0	Electronic check
299	73.60	73.60	1	Mailed check
300	64.90	1509.80	0	Bank transfer
301	95.45	396.10	1	Electronic check
302	90.40	356.65	0	Electronic check
303	60.30	4109.00	0	Credit card
304	81.85	3141.70	0	Mailed check
305	24.80	1229.10	0	Mailed check
306	74.90	2303.35	1	Electronic check
307	75.55	2054.40	0	Mailed check
308	101.15	3741.85	0	Electronic check
309	78.75	3682.45	0	Credit card
310	19.25	19.25	0	Bank transfer
311	89.05	1886.25	0	Electronic check
312	115.05	4895.10	0	Credit card
313	69.35	341.60	0	Electronic check
314	80.60	415.55	1	Electronic check
315	110.05	5686.40	0	Credit card
316	19.90	1355.10	0	Credit card
317	80.30	3058.65	1	Credit card
318	93.15	2231.05	1	Electronic check
319	91.50	3236.35	0	Credit card
320	82.45	4350.10	1	Bank transfer
321	60.00	4264.00	0	Electronic check
322	44.80	44.80	0	Electronic check
323	48.60	422.30	0	Mailed check
324	60.05	4176.70	0	Bank transfer
325	102.70	5138.10	0	Credit card
326	82.90	880.05	0	Electronic check
327	70.35	139.05	1	Electronic check
328	35.90	973.65	0	Electronic check
329	82.65	1470.05	0	Credit card
330	19.85	739.35	0	Mailed check
331	19.20	161.95	0	Mailed check
332	94.90	4422.95	0	Credit card
333	73.85	511.25	1	Electronic check

334	80.60	155.80	1	Mailed check
335	75.80	5293.95	1	Bank transfer
336	104.60	4759.85	1	Electronic check
337	88.15	6148.45	0	Electronic check
338	94.80	3565.65	0	Credit card
339	103.40	6603.00	1	Electronic check
340	54.65	1830.10	0	Bank transfer
341	85.75	6223.80	0	Credit card
342	67.45	4508.65	0	Bank transfer
343	20.50	1328.15	0	Mailed check
344	20.25	865.00	0	Credit card
345	72.10	72.10	0	Electronic check
346	90.40	168.20	1	Electronic check
347	19.45	1303.50	0	Bank transfer
348	44.95	996.85	0	Electronic check
349	97.00	6430.90	0	Bank transfer
350	62.80	2278.75	0	Credit card
351	44.60	681.40	0	Mailed check
352	89.15	574.35	0	Electronic check
353	84.80	371.90	1	Bank transfer
354	41.90	840.10	1	Electronic check
355	80.25	846.00	1	Bank transfer
356	54.10	889.00	0	Electronic check
357	105.25	6823.40	0	Electronic check
358	30.75	805.10	1	Credit card
359	97.10	4016.75	0	Electronic check
360	20.20	83.75	0	Mailed check
361	98.80	3959.15	0	Bank transfer
362	50.30	2878.55	0	Credit card
363	20.55	945.70	0	Mailed check
364	75.90	1373.05	0	Bank transfer
365	96.50	492.55	1	Bank transfer
366	59.95	1406.00	0	Bank transfer
367	19.15	19.15	0	Mailed check
368	98.65	6962.85	0	Credit card
369	112.60	8126.65	0	Credit card
370	20.60	690.25	0	Mailed check
371	85.65	181.50	1	Electronic check
372	35.75	830.80	0	Mailed check
373	99.75	5608.40	0	Credit card
374	96.10	3646.80	0	Credit card
375	85.10	3662.25	0	Credit card
376	25.35	25.35	0	Mailed check
377	104.95	2566.50	1	Bank transfer
378	89.65	5308.70	0	Electronic check
379	86.75	1410.25	0	Electronic check
380	86.20	3339.05	0	Bank transfer
381	50.65	50.65	1	Mailed check

382	64.80	4732.35	0	Bank transfer
383	90.85	90.85	1	Credit card
384	108.10	5067.45	0	Bank transfer
385	19.95	214.75	1	Mailed check
386	85.45	4874.70	1	Electronic check
387	54.75	2348.45	0	Electronic check
388	90.40	4063.00	0	Mailed check
389	44.00	44.00	0	Electronic check
390	95.60	2595.25	0	Bank transfer
391	84.80	2309.55	0	Bank transfer
392	44.30	89.30	0	Electronic check
393	19.90	367.55	0	Mailed check
394	95.05	3944.50	0	Electronic check
395	90.05	5965.95	0	Credit card
396	109.90	3694.70	0	Bank transfer
397	73.95	2524.45	1	Credit card
398	54.60	1803.70	0	Electronic check
399	20.05	415.10	0	Mailed check
400	19.75	624.15	0	Bank transfer
401	20.05	237.70	0	Credit card
402	99.45	7007.60	1	Credit card
403	55.90	3848.80	0	Bank transfer
404	19.70	419.40	0	Mailed check
405	19.80	1468.75	0	Credit card
406	95.40	5812.00	0	Bank transfer
407	93.95	2861.45	0	Mailed check
408	19.90	19.90	1	Mailed check
409	19.60	19.60	1	Mailed check
410	81.35	233.70	1	Electronic check
411	24.45	1066.15	0	Bank transfer
412	74.95	2149.05	0	Electronic check
413	87.35	4473.00	0	Electronic check
414	70.65	3545.05	0	Bank transfer
415	73.25	1195.75	0	Bank transfer
416	98.70	6858.90	0	Bank transfer
417	24.80	1024.70	0	Mailed check
418	83.30	1845.90	1	Electronic check
419	75.30	75.30	1	Bank transfer
420	24.30	132.25	0	Mailed check
421	69.85	515.45	0	Bank transfer
422	100.55	2830.45	0	Credit card
423	25.70	1110.50	0	Mailed check
424	40.70	449.30	0	Bank transfer
425	51.65	2838.55	0	Bank transfer
426	105.10	5376.40	0	Bank transfer
427	85.95	858.60	0	Electronic check
428	75.60	1395.05	0	Bank transfer
429	58.25	3975.70	0	Bank transfer

430	19.40	1182.55	1	Mailed check
431	65.20	4784.45	0	Credit card
432	53.45	119.50	0	Electronic check
433	45.40	518.90	1	Bank transfer
434	19.75	899.45	0	Electronic check
435	44.45	1183.80	0	Credit card
436	20.85	720.05	0	Bank transfer
437	114.05	8468.20	0	Credit card
438	89.85	3161.20	0	Bank transfer
439	55.05	55.05	0	Mailed check
440	112.95	1882.55	0	Electronic check
441	101.55	5070.40	0	Credit card
442	114.65	6049.50	0	Mailed check
443	64.80	1166.70	0	Electronic check
444	80.40	2937.65	0	Electronic check
445	105.90	6396.45	1	Electronic check
446	69.55	69.55	1	Mailed check
447	25.05	1270.25	0	Bank transfer
448	94.75	759.55	0	Electronic check
449	105.50	7611.55	0	Bank transfer
450	24.70	1642.75	0	Mailed check
451	69.75	1545.40	0	Mailed check
452	60.20	3582.40	0	Bank transfer
453	81.05	2227.10	1	Electronic check
454	24.40	1417.90	0	Mailed check
455	104.15	2494.65	0	Electronic check
456	92.90	2768.35	0	Bank transfer
457	80.80	2369.30	0	Bank transfer
458	20.00	38.00	0	Mailed check
459	75.10	75.10	0	Electronic check
460	19.65	100.90	0	Mailed check
461	69.45	1614.05	0	Bank transfer
462	101.15	385.90	1	Electronic check
463	99.80	673.25	1	Electronic check
464	116.05	8404.90	0	Bank transfer
465	40.05	2799.75	0	Mailed check
466	102.10	6538.45	0	Electronic check
467	89.70	6588.95	0	Electronic check
468	19.90	868.10	0	Mailed check
469	55.95	734.35	1	Electronic check
470	20.65	330.60	0	Mailed check
471	55.00	55.00	1	Electronic check
472	70.05	564.40	0	Mailed check
473	53.60	1315.35	0	Mailed check
474	74.70	74.70	1	Electronic check
475	80.25	1861.50	1	Electronic check
476	76.05	2747.20	0	Electronic check
477	75.70	554.05	0	Electronic check

478	96.10	453.40	1	Electronic check
479	69.00	994.80	1	Bank transfer
480	19.65	225.75	0	Mailed check
481	45.30	2145.00	1	Bank transfer
482	81.45	1671.60	0	Electronic check
483	108.50	8003.80	0	Bank transfer
484	83.55	680.05	1	Electronic check
485	84.50	6130.85	0	Credit card
486	100.15	1415.00	0	Electronic check
487	88.60	6201.95	0	Bank transfer
488	52.55	NaN	0	Bank transfer
489	74.35	74.35	1	Electronic check
490	104.80	6597.25	0	Bank transfer
491	59.00	114.15	0	Electronic check
492	74.40	139.40	1	Electronic check
493	64.05	3902.60	0	Bank transfer
494	20.40	20.40	0	Mailed check
495	43.75	903.60	1	Bank transfer
496	60.90	1785.65	0	Mailed check
497	19.80	1397.65	0	Bank transfer
498	28.45	131.05	1	Electronic check
499	99.70	1238.45	1	Bank transfer
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6543	54.75	3425.35	0	Credit card
6544	104.75	4323.45	1	Bank transfer
6545	74.65	703.55	1	Electronic check
6546	51.15	1275.70	0	Electronic check
6547	41.95	2965.75	0	Electronic check
6548	54.35	1647.00	0	Mailed check
6549	56.25	56.25	1	Electronic check
6550	106.10	2249.95	1	Electronic check
6551	96.00	6109.75	0	Electronic check
6552	79.75	159.40	1	Bank transfer
6553	61.45	3751.15	0	Bank transfer
6554	68.65	68.65	1	Electronic check
6555	19.65	411.25	0	Mailed check
6556	19.00	105.50	0	Credit card
6557	100.00	3320.60	0	Electronic check
6558	20.25	327.45	1	Bank transfer
6559	98.70	5669.50	0	Electronic check
6560	19.80	465.45	0	Mailed check
6561	73.80	704.30	0	Electronic check
6562	100.20	1369.80	1	Electronic check
6563	74.90	1107.25	1	Bank transfer
6564	20.05	95.55	0	Credit card
6565	106.20	6375.20	0	Electronic check
6566	116.55	8152.30	0	Credit card
6567	99.70	1566.75	0	Electronic check

6568	19.70	130.25	0	Mailed check
6569	19.50	162.15	0	Mailed check
6570	29.15	110.05	0	Mailed check
6571	55.00	1885.15	0	Mailed check
6572	90.80	6302.85	0	Credit card
6573	51.00	2264.50	0	Bank transfer
6574	90.10	816.80	0	Electronic check
6575	59.05	1253.50	0	Mailed check
6576	20.30	41.20	0	Mailed check
6577	72.95	5265.55	0	Bank transfer
6578	73.55	693.30	0	Credit card
6579	84.30	5997.10	0	Credit card
6580	78.00	3824.20	0	Credit card
6581	72.10	3886.05	0	Mailed check
6582	106.75	7283.25	0	Credit card
6583	19.25	412.55	0	Mailed check
6584	20.55	1070.25	0	Credit card
6585	20.00	817.95	0	Mailed check
6586	24.65	1171.30	0	Credit card
6587	103.50	6548.65	0	Bank transfer
6588	23.85	625.65	0	Mailed check
6589	25.80	1911.50	0	Credit card
6590	70.85	70.85	1	Electronic check
6591	69.80	134.70	1	Credit card
6592	59.45	1507.00	0	Credit card
6593	54.55	2978.30	1	Bank transfer
6594	20.05	299.30	0	Electronic check
6595	82.55	5832.65	0	Electronic check
6596	81.25	5567.55	0	Electronic check
6597	70.75	450.80	1	Credit card
6598	74.30	4166.35	0	Credit card
6599	94.10	1215.60	1	Electronic check
6600	29.70	91.70	1	Credit card
6601	109.70	7898.45	0	Credit card
6602	96.35	3915.40	0	Credit card
6603	66.60	979.50	0	Credit card
6604	44.50	90.05	0	Electronic check
6605	110.90	7432.05	1	Credit card
6606	105.00	4026.40	1	Electronic check
6607	25.30	25.30	1	Electronic check
6608	55.15	1193.05	1	Credit card
6609	20.10	20.10	1	Mailed check
6610	80.10	398.55	0	Mailed check
6611	69.05	1958.45	0	Bank transfer
6612	69.90	69.90	1	Mailed check
6613	20.40	63.15	0	Mailed check
6614	19.70	1301.10	0	Credit card
6615	50.10	484.05	0	Electronic check

6616	101.40	4528.00	1	Electronic check
6617	83.45	3887.85	0	Credit card
6618	86.65	2208.75	0	Credit card
6619	20.15	238.15	0	Bank transfer
6620	80.80	80.80	1	Electronic check
6621	19.40	958.15	0	Credit card
6622	62.05	118.30	1	Bank transfer
6623	76.45	76.45	1	Electronic check
6624	60.05	3845.45	0	Bank transfer
6625	91.30	1094.50	1	Electronic check
6626	95.75	573.75	1	Electronic check
6627	20.35	1267.00	0	Mailed check
6628	94.05	633.45	0	Mailed check
6629	84.10	6129.65	0	Credit card
6630	78.75	1218.25	0	Electronic check
6631	55.55	1405.30	0	Credit card
6632	62.65	2274.90	1	Electronic check
6633	74.50	74.50	1	Electronic check
6634	102.10	1068.85	1	Credit card
6635	20.10	533.90	0	Mailed check
6636	70.30	676.15	0	Electronic check
6637	53.65	3804.40	0	Credit card
6638	20.75	1118.80	0	Mailed check
6639	103.40	5236.40	0	Bank transfer
6640	50.80	1386.80	0	Mailed check
6641	50.15	762.25	1	Electronic check
6642	79.00	1902.00	0	Mailed check
6643	74.60	239.05	0	Bank transfer
6644	96.50	5673.70	0	Bank transfer
6645	20.10	39.80	0	Mailed check
6646	19.40	997.75	0	Mailed check
6647	77.55	5574.35	0	Credit card
6648	20.05	406.05	0	Mailed check
6649	19.85	138.85	0	Credit card
6650	20.20	123.65	0	Mailed check
6651	67.45	1801.10	0	Mailed check
6652	18.55	689.00	0	Credit card
6653	29.75	790.70	0	Mailed check
6654	86.50	582.50	1	Electronic check
6655	24.20	1618.20	0	Mailed check
6656	23.55	1173.35	0	Mailed check
6657	20.45	900.90	0	Bank transfer
6658	81.45	2122.05	1	Electronic check
6659	92.30	6719.90	0	Credit card
6660	69.15	69.15	1	Electronic check
6661	53.65	3784.00	0	Credit card
6662	39.65	1798.65	0	Credit card
6663	54.65	54.65	0	Electronic check

6664	104.80	3886.45	0	Bank transfer
6665	29.30	1224.05	0	Credit card
6666	83.85	2310.20	0	Electronic check
6667	79.55	723.40	1	Electronic check
6668	103.65	3988.50	0	Electronic check
6669	99.05	3554.60	0	Electronic check
6670	73.35	NaN	0	Mailed check
6671	100.05	6034.85	0	Mailed check
6672	20.35	531.60	0	Credit card
6673	43.95	85.10	0	Electronic check
6674	23.50	173.00	0	Mailed check
6675	70.70	2511.95	0	Mailed check
6676	94.30	3893.60	0	Bank transfer
6677	29.15	357.15	0	Electronic check
6678	20.85	467.50	0	Credit card
6679	37.70	2288.70	0	Bank transfer
6680	95.50	4627.85	1	Mailed check
6681	91.05	289.10	1	Electronic check
6682	92.45	6460.55	0	Mailed check
6683	44.15	1931.30	0	Electronic check
6684	36.05	402.60	0	Mailed check
6685	50.25	2221.55	0	Credit card
6686	109.75	7758.90	0	Credit card
6687	79.20	172.85	1	Electronic check
6688	20.30	224.50	0	Bank transfer
6689	112.35	7388.45	0	Credit card
6690	94.30	3460.95	0	Mailed check
6691	41.15	1700.90	0	Bank transfer
6692	74.65	3090.65	0	Bank transfer
6693	48.25	1293.80	0	Electronic check
6694	76.15	645.80	0	Credit card
6695	71.10	5224.95	0	Mailed check
6696	96.55	500.10	0	Electronic check
6697	79.30	2427.10	0	Credit card
6698	89.60	3488.15	0	Credit card
6699	20.50	1035.70	0	Mailed check
6700	106.30	7565.35	0	Bank transfer
6701	100.35	2799.00	0	Bank transfer
6702	85.60	1601.50	0	Electronic check
6703	45.25	85.50	1	Electronic check
6704	106.15	6256.20	0	Electronic check
6705	51.10	1232.90	0	Electronic check
6706	19.90	19.90	0	Mailed check
6707	25.70	1937.40	0	Credit card
6708	74.30	1096.25	1	Electronic check
6709	99.40	5059.75	0	Electronic check
6710	69.70	3023.65	0	Bank transfer
6711	98.35	4889.20	0	Electronic check

6712	85.45	2289.90	0	Electronic check
6713	95.90	6503.20	0	Electronic check
6714	100.75	1313.25	0	Electronic check
6715	89.20	990.30	0	Electronic check
6716	74.10	228.00	1	Credit card
6717	100.60	5746.15	1	Electronic check
6718	75.00	209.10	1	Mailed check
6719	25.75	1864.20	0	Credit card
6720	84.10	5979.70	0	Electronic check
6721	79.30	3902.45	0	Bank transfer
6722	107.05	7142.50	0	Credit card
6723	20.05	902.00	0	Bank transfer
6724	70.20	4481.00	1	Credit card
6725	19.50	805.20	0	Bank transfer
6726	70.75	154.85	1	Electronic check
6727	45.30	528.45	0	Electronic check
6728	115.15	8349.70	0	Electronic check
6729	72.95	4953.25	0	Bank transfer
6730	19.65	332.65	0	Mailed check
6731	19.55	470.20	0	Bank transfer
6732	89.55	2259.35	0	Electronic check
6733	50.35	1411.35	0	Mailed check
6734	50.25	593.75	1	Bank transfer
6735	87.25	6328.70	0	Credit card
6736	20.80	1411.90	0	Mailed check
6737	109.25	6841.40	0	Bank transfer
6738	20.35	20.35	0	Mailed check
6739	55.90	238.50	0	Electronic check
6740	79.20	3233.85	1	Credit card
6741	96.00	1062.10	1	Electronic check
6742	79.20	4016.30	0	Electronic check
6743	24.00	226.55	0	Electronic check
6744	101.35	7110.75	0	Bank transfer
6745	100.10	5440.90	1	Electronic check
6746	56.50	235.10	1	Mailed check
6747	35.45	1958.95	0	Mailed check
6748	85.00	85.00	1	Electronic check
6749	79.40	5528.90	0	Bank transfer
6750	35.20	1463.70	0	Credit card
6751	19.65	1025.05	0	Mailed check
6752	49.85	552.10	0	Mailed check
6753	68.75	3815.40	0	Bank transfer
6754	61.90	NaN	0	Bank transfer
6755	79.90	3313.40	0	Electronic check
6756	89.75	1938.90	0	Bank transfer
6757	59.30	3014.65	1	Electronic check
6758	19.40	460.25	0	Credit card
6759	93.65	4839.15	0	Bank transfer

6760	49.40	184.40	1	Electronic check
6761	19.90	19.90	0	Mailed check
6762	55.00	2010.55	1	Mailed check
6763	72.90	5139.65	0	Bank transfer
6764	69.20	69.20	1	Electronic check
6765	25.60	1673.40	0	Bank transfer
6766	19.75	309.35	0	Mailed check
6767	55.70	3171.60	0	Electronic check
6768	117.50	8670.10	0	Credit card
6769	19.85	916.00	0	Credit card
6770	78.90	299.75	0	Mailed check
6771	20.65	702.05	0	Electronic check
6772	62.30	2354.80	1	Mailed check
6773	92.50	3473.40	1	Electronic check
6774	19.65	19.65	0	Mailed check
6775	79.75	4438.20	0	Bank transfer
6776	79.95	4819.75	0	Credit card
6777	29.90	92.25	0	Electronic check
6778	19.75	1567.00	0	Mailed check
6779	45.00	1242.45	0	Mailed check
6780	44.80	559.20	0	Bank transfer
6781	69.65	220.10	1	Electronic check
6782	51.10	531.15	0	Electronic check
6783	53.15	1183.20	0	Mailed check
6784	24.70	465.85	0	Bank transfer
6785	111.60	6876.05	1	Credit card
6786	48.55	501.00	1	Credit card
6787	109.95	3782.40	0	Electronic check
6788	20.80	460.20	0	Mailed check
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6791	39.65	733.35	1	Electronic check
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6795	85.10	4600.95	0	Electronic check
6796	56.70	113.55	1	Mailed check
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6798	70.15	886.70	0	Mailed check
6799	111.15	7737.55	0	Mailed check
6800	105.95	1348.90	1	Mailed check
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6802	89.10	1879.25	0	Bank transfer
6803	91.25	4013.80	0	Credit card
6804	90.35	434.50	0	Mailed check
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6814	94.00	5438.95	0	Credit card
6815	69.85	5102.35	0	Bank transfer
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6817	25.85	1872.20	0	Credit card
6818	71.10	213.35	0	Mailed check
6819	98.80	5617.75	1	Electronic check
6820	93.35	5386.50	0	Electronic check
6821	99.85	1776.95	1	Bank transfer
6822	80.30	2483.05	1	Credit card
6823	50.55	235.65	0	Bank transfer
6824	80.45	5224.35	1	Credit card
6825	81.30	2272.80	0	Electronic check
6826	20.70	83.75	0	Credit card
6827	79.05	4663.40	0	Credit card
6828	19.05	201.70	0	Mailed check
6829	19.60	125.00	0	Credit card
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6831	86.80	620.35	1	Electronic check
6832	20.90	1146.05	0	Mailed check
6833	103.60	1806.35	0	Credit card
6834	38.80	603.00	0	Mailed check
6835	88.40	5798.30	0	Bank transfer
6836	84.20	519.15	1	Electronic check
6837	79.70	497.60	0	Electronic check
6838	99.00	1301.70	1	Mailed check
6839	100.75	1129.75	1	Electronic check
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6841	55.75	266.95	0	Mailed check
6842	19.95	257.00	0	Mailed check
6843	91.75	865.80	1	Bank transfer
6844	89.65	2623.65	0	Mailed check
6845	45.85	45.85	0	Mailed check
6846	79.55	79.55	1	Mailed check
6847	55.95	1082.80	0	Mailed check
6848	69.00	147.80	0	Credit card
6849	83.55	2570.20	0	Bank transfer
6850	65.70	4378.90	0	Bank transfer
6851	94.90	3616.25	0	Bank transfer
6852	61.90	2924.05	0	Mailed check
6853	111.10	6014.85	1	Electronic check
6854	20.00	32.70	0	Mailed check
6855	67.70	2882.25	0	Mailed check

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6858	89.10	2368.40	1	Electronic check
6859	111.30	7985.90	0	Mailed check
6860	101.90	3545.35	1	Bank transfer
6861	91.65	1301.00	1	Electronic check
6862	88.85	372.45	1	Electronic check
6863	60.60	2985.25	0	Bank transfer
6864	25.30	77.75	1	Electronic check
6865	65.50	564.35	0	Mailed check
6866	95.45	95.45	1	Electronic check
6867	19.95	1311.75	0	Bank transfer
6868	91.10	1135.70	1	Electronic check
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6870	74.60	3720.35	0	Bank transfer
6871	94.60	5025.80	0	Bank transfer
6872	81.15	5224.50	0	Credit card
6873	89.05	6185.80	0	Bank transfer
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6876	104.30	6613.65	0	Electronic check
6877	69.70	69.70	1	Bank transfer
6878	89.50	573.30	1	Electronic check
6879	86.05	1818.90	0	Electronic check
6880	25.20	1787.35	0	Bank transfer
6881	35.15	1051.05	0	Electronic check
6882	99.65	7181.25	0	Credit card
6883	105.35	3688.60	0	Bank transfer
6884	35.15	99.75	1	Electronic check
6885	73.75	871.40	1	Credit card
6886	101.35	780.50	1	Electronic check
6887	24.30	821.60	0	Bank transfer
6888	80.70	239.45	0	Electronic check
6889	89.85	244.45	0	Mailed check
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6891	29.05	129.60	0	Electronic check
6892	99.70	4977.20	0	Bank transfer
6893	55.90	365.35	1	Credit card
6894	105.90	334.65	1	Electronic check
6895	46.00	2424.05	0	Credit card
6896	43.95	43.95	1	Mailed check
6897	80.40	4981.15	0	Bank transfer
6898	100.05	2090.25	0	Mailed check
6899	45.10	45.10	1	Bank transfer
6900	94.00	4905.75	0	Bank transfer
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6903	69.00	2441.70	0	Electronic check

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6932	56.75	503.25	0	Bank transfer
6933	69.60	69.60	1	Electronic check
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6935	110.80	7245.90	0	Credit card
6936	80.15	385.00	1	Electronic check
6937	35.75	961.40	0	Mailed check
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6939	89.20	3251.30	0	Electronic check
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6947	101.05	6770.50	0	Credit card
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6949	36.25	1151.05	0	Mailed check
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6951	19.90	1022.60	0	Credit card

6952	107.40	5121.30	1	Bank transfer
6953	82.00	1127.20	1	Electronic check
6954	19.80	309.40	0	Mailed check
6955	45.05	523.10	0	Electronic check
6956	64.55	4250.10	0	Bank transfer
6957	86.25	770.50	0	Electronic check
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6959	89.10	3342.00	0	Mailed check
6960	95.55	3930.60	0	Electronic check
6961	75.40	1747.85	1	Credit card
6962	101.25	2754.45	1	Electronic check
6963	102.60	897.75	0	Credit card
6964	56.30	2780.60	0	Credit card
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6971	99.75	1836.25	1	Bank transfer
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6989	76.00	1588.75	0	Bank transfer
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6992	100.55	7113.75	0	Bank transfer
6993	88.05	4367.35	1	Electronic check
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6995	89.55	5012.35	0	Mailed check
6996	66.50	2728.60	1	Bank transfer
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7042	1	0

[7043 rows x 23 columns]

Problem 6: NaN values in Total Charges

Solution 6: Replace NaN values with Zero

```
In [22]: df.total_charges = df.total_charges.replace(np.nan, 0)
```

```
In [23]: np.where(np.isnan(df.total_charges))
```

```
Out [23]: (array([], dtype=int64),)
```

Finally, Save the New DataSet into a CSV file

```
In [45]: df.to_csv('CleanTELCO.csv', index=False)
```

1.3 C.) Univariate Analysis

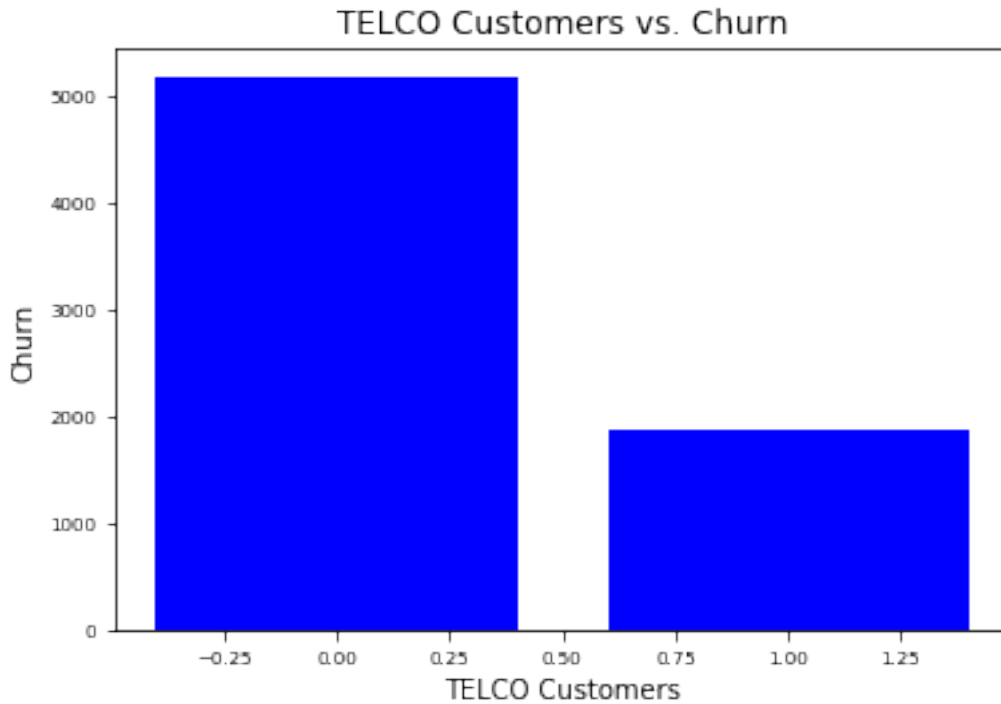
The best approach to begin seeing the correlation between internet service and automatic payment as possible predictors for tenure, is to see the frequency counts of each variable using univariate analysis

```
In [24]: my_tab = pd.crosstab(df["churn"], columns="count")
         my_tab
```

```
Out [24]: col_0  count
         churn
         0      5174
         1      1869
```

```
In [25]: xvalues = [0, 1]
         yvaluecounts = df['churn'].value_counts()

         plt.bar(xvalues, yvaluecounts, color='blue')
         plt.tick_params(labelsize = 7)
         plt.ylabel('Churn')
         plt.xlabel('TELCO Customers')
         plt.title('TELCO Customers vs. Churn')
         plt.show()
         fig = plt.figure()
         fig.savefig('univariatel.png')
```



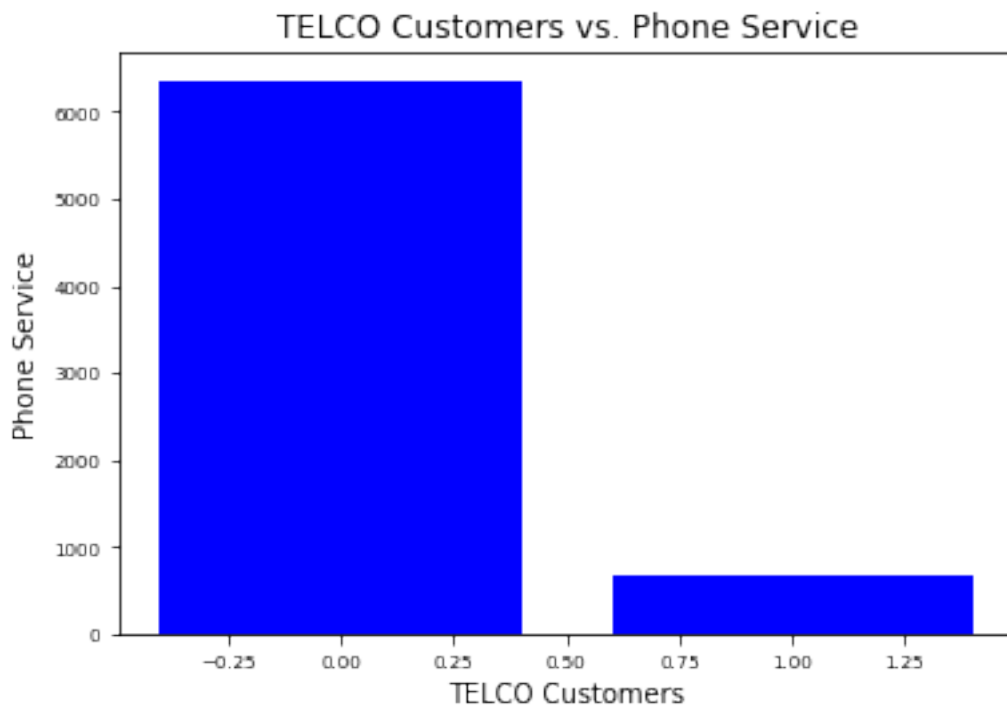
<Figure size 432x288 with 0 Axes>

```
In [26]: int_tab = pd.crosstab(df["phone_service"], columns="count")
int_tab
```

```
Out[26]: col_0      count
phone_service
0           682
1          6361
```

```
In [27]: xvalues = [0, 1]
yvaluecounts = df['phone_service'].value_counts()

plt.bar(xvalues, yvaluecounts, color='blue')
plt.tick_params(labelsize = 7)
plt.ylabel('Phone Service')
plt.xlabel('TELCO Customers')
plt.title('TELCO Customers vs. Phone Service')
plt.show()
fig = plt.figure()
fig.savefig('univariate2.png')
```



<Figure size 432x288 with 0 Axes>

```
In [28]: ten_tab = pd.crosstab(df["tenure"], columns="count")
         ten_tab
```

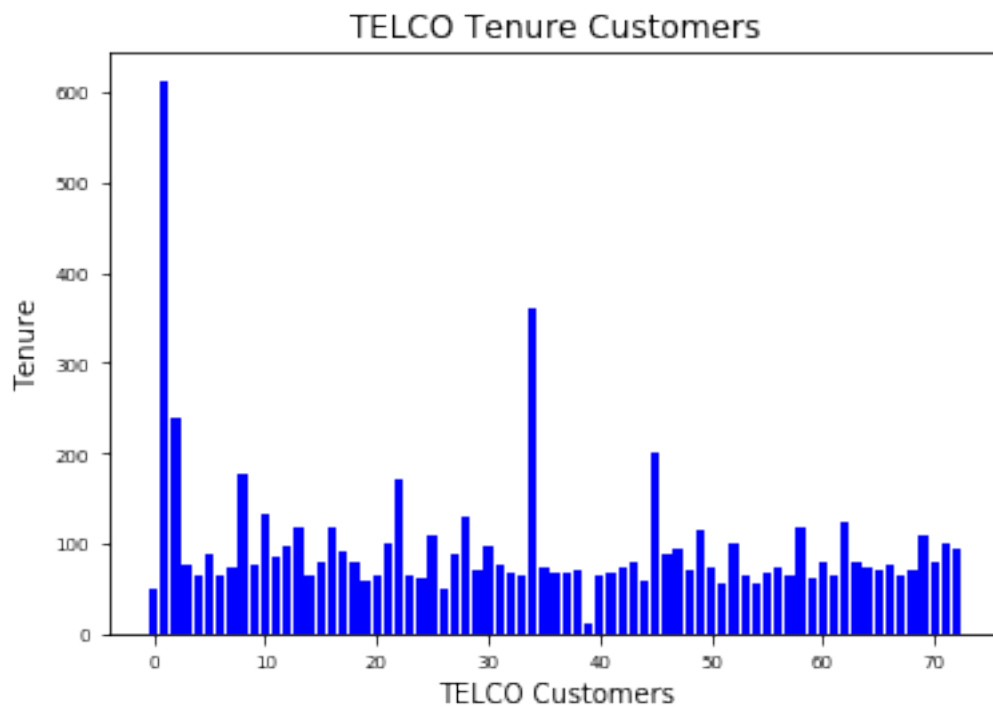
```
Out[28]: col_0    count
         tenure
0          11
1         613
2         238
3         200
4         176
5         133
6         110
7         131
8         123
9         119
10        116
11          99
12        117
13        109
14          76
15          99
```


16	80
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18	97
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20	71
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22	90
23	85
24	94
25	79
26	79
27	72
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29	72
30	72
31	65
32	69
33	64
34	65
35	88
36	50
37	65
38	59
39	56
40	64
41	70
42	65
43	65
44	51
45	61
46	74
47	68
48	64
49	66
50	68
51	68
52	80
53	70
54	68
55	64
56	80
57	65
58	67
59	60
60	76
61	76
62	70
63	72

64	80
65	76
66	89
67	98
68	100
69	95
70	119
71	170
72	362

```
In [29]: xvalues = df['tenure'].unique()
yvaluecounts = df['tenure'].value_counts()

plt.bar(xvalues, yvaluecounts, color='blue')
plt.tick_params(labelsize = 7)
plt.ylabel('Tenure')
plt.xlabel('TELCO Customers')
plt.title('TELCO Tenure Customers')
plt.show()
fig = plt.figure()
fig.savefig('univariate3.png')
```



<Figure size 432x288 with 0 Axes>

```
In [30]: charges_tab = pd.crosstab(df["monthly_charges"], columns="count")
charges_tab
```

```
Out[30]: col_0          count
monthly_charges
18.25          1
18.40          1
18.55          1
18.70          2
18.75          1
18.80          7
18.85          5
18.90          2
18.95          6
19.00          7
19.05          9
19.10         12
19.15         11
19.20         17
19.25         18
19.30         24
19.35         25
19.40         31
19.45         28
19.50         32
19.55         40
19.60         37
19.65         43
19.70         43
19.75         39
19.80         38
19.85         45
19.90         44
19.95         44
20.00         43
20.05         61
20.10         37
20.15         40
20.20         35
20.25         39
20.30         28
20.35         38
20.40         30
20.45         31
20.50         28
20.55         27
20.60         15
20.65         23
```

20.70	13
20.75	17
20.80	8
20.85	15
20.90	10
20.95	8
21.00	5
21.05	6
21.10	5
21.15	2
21.20	3
21.25	2
21.30	1
21.45	1
22.95	1
23.05	1
23.15	1
23.30	2
23.40	1
23.45	1
23.50	1
23.55	2
23.60	1
23.65	1
23.75	3
23.80	1
23.85	2
23.90	4
23.95	4
24.00	5
24.05	6
24.10	8
24.15	6
24.20	5
24.25	10
24.30	7
24.35	6
24.40	11
24.45	15
24.50	7
24.55	6
24.60	9
24.65	8
24.70	12
24.75	10
24.80	15
24.85	10
24.90	11

24.95	12
25.00	17
25.05	14
25.10	19
25.15	14
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25.30	10
25.35	6
25.40	12
25.45	10
25.50	5
25.55	8
25.60	10
25.65	4
25.70	10
25.75	8
25.80	3
25.85	3
25.90	2
25.95	2
26.00	6
26.05	2
26.10	5
26.20	2
26.25	2
26.30	3
26.35	2
26.40	2
26.45	3
26.50	1
26.80	1
26.90	1
28.45	1
28.50	1
28.60	1
29.05	2
29.10	1
29.15	3
29.20	2
29.25	1
29.30	2
29.35	2
29.40	1
29.45	3
29.50	2
29.60	3
29.65	3

29.70	3
29.75	3
29.80	5
29.85	2
29.90	4
29.95	2
30.05	1
30.10	3
30.15	2
30.20	3
30.25	2
30.30	1
30.35	2
30.40	4
30.45	1
30.50	4
30.55	1
30.60	1
30.75	3
30.85	1
30.90	1
31.00	1
31.05	2
31.10	1
31.20	1
31.35	1
31.65	1
33.15	1
33.45	2
33.50	1
33.55	1
33.60	4
33.65	1
33.70	1
33.75	1
33.90	1
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34.05	1
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34.25	3
34.30	2
34.40	1
34.50	1
34.55	1
34.60	1
34.65	2
34.70	6
34.80	2

34.85	1
34.95	1
35.00	4
35.05	3
35.10	4
35.15	2
35.20	3
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35.75	6
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110.05	2
110.10	4
110.15	3
110.20	3
110.25	2
110.30	2
110.35	2
110.45	5
110.50	6
110.55	1
110.60	3
110.65	2
110.70	1
110.75	4
110.80	6
110.85	3
110.90	3
111.05	2
111.10	2
111.15	3
111.20	2

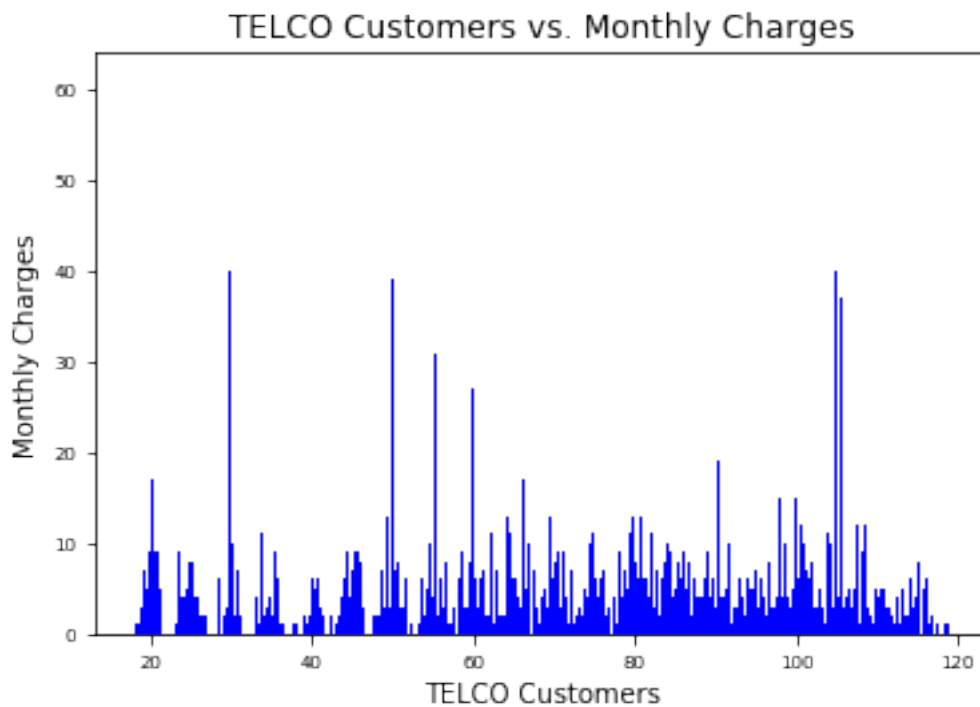
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111.40	1
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111.65	2
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117.80	1
118.20	1
118.35	1
118.60	2
118.65	1
118.75	1

[1585 rows x 1 columns]

```
In [31]: xvalues = df['monthly_charges'].unique()
         yvaluecounts = df['monthly_charges'].value_counts()

         plt.bar(xvalues, yvaluecounts, color='blue', align='edge', width=0.1)
         plt.tick_params(labelsize = 7)
         plt.ylabel('Monthly Charges')
         plt.xlabel('TELCO Customers')
         plt.title('TELCO Customers vs. Monthly Charges')
         plt.show()
         fig = plt.figure()
         fig.savefig('univariate4.png')
```



<Figure size 432x288 with 0 Axes>

Visualizations for univariate analysis

1.3.1 B.) Bivariate Analysis

Utilize correlation analysis to conduct covariance analysis

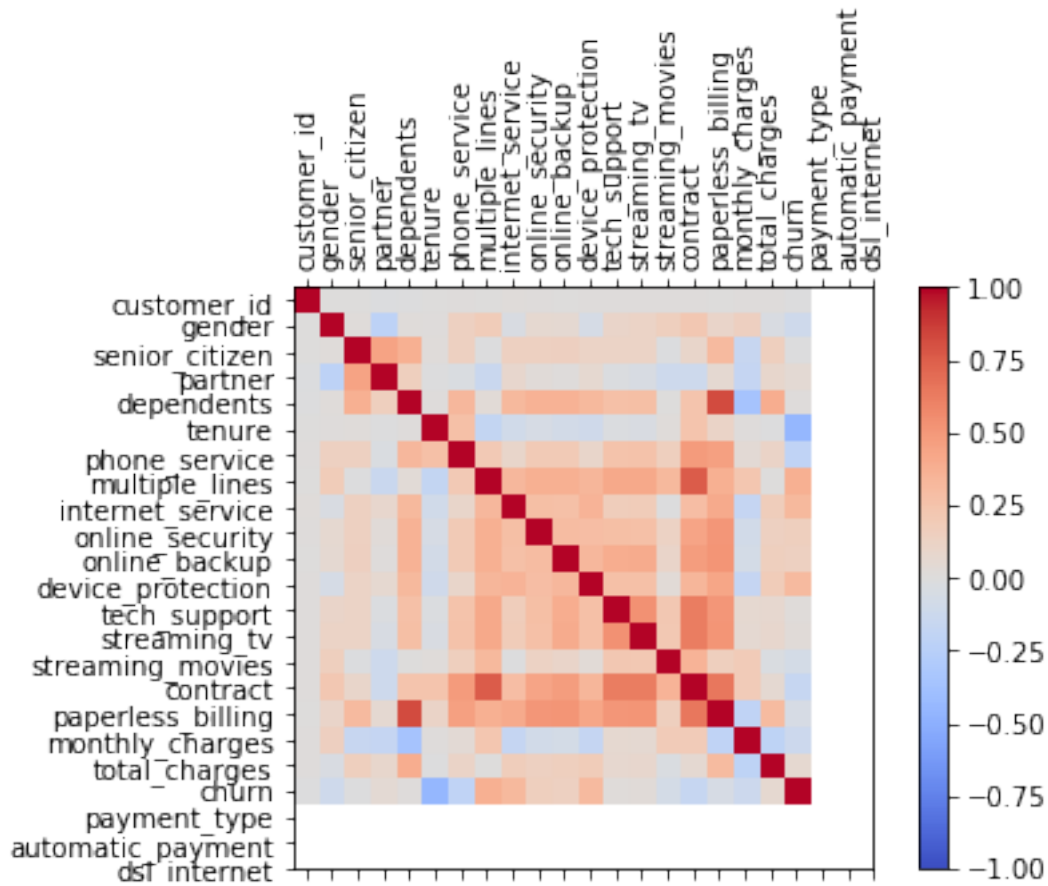
```
In [32]: corr = df.corr()
         fig = plt.figure()
         ax = fig.add_subplot(111)
```



```

cax = ax.matshow(corr,cmap='coolwarm', vmin=-1, vmax=1)
fig.colorbar(cax)
ticks = np.arange(0,len(df.columns),1)
ax.set_xticks(ticks)
plt.xticks(rotation=90)
ax.set_yticks(ticks)
ax.set_xticklabels(df.columns)
ax.set_yticklabels(df.columns)
plt.show()

```



It is clear that Tenure is positively correlated with Phone Service, Contract, and negatively correlated with churn

C.) Descriptive Analysis

Utilize Linear Regression in order to create a predictive model for tenure likelihood based on phone service and internet service

```

In [33]: #First I reshaped the variables paperless billing and total charges in order to be scalars
X = df['paperless_billing'].values.reshape(-1,1)

```

```
y = df['total_charges'].values.reshape(-1,1)
```

```
#Then I created training and test variables in order to test the validity of the model  
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.5, random_state=42)
```

```
#I used the training variables to create the Linear Regression Model  
regressor = LinearRegression()  
regressor.fit(X_train, y_train)
```

```
#I printed the regression intercept and coefficient to evaluate the Model  
print(regressor.intercept_)  
print(regressor.coef_)
```

```
[1846.35262213]  
[[727.18551785]]
```

```
In [34]: #I finally completed the linear regression model with the predict() function and assigned the predicted values to y_pred  
y_pred = regressor.predict(X_test)
```

```
In [35]: #I then created a dataframe out of the actual values and the predicted values based on the test set  
#to compare the two  
modl = pd.DataFrame({'Actual': y_test.flatten(), 'Predicted': y_pred.flatten()})  
modl
```

```
Out[35]:
```

	Actual	Predicted
0	1045.25	1846.352622
1	7049.50	2573.538140
2	923.85	2573.538140
3	20.45	1846.352622
4	4266.40	2573.538140
5	260.90	2573.538140
6	1414.20	1846.352622
7	69.55	2573.538140
8	2234.55	1846.352622
9	3365.40	2573.538140
10	4959.15	1846.352622
11	1442.00	2573.538140
12	3789.20	2573.538140
13	108.65	2573.538140
14	7405.50	1846.352622
15	81.25	1846.352622
16	113.50	1846.352622
17	5500.60	1846.352622
18	1442.65	2573.538140
19	146.65	2573.538140
20	1753.00	1846.352622
21	2568.55	1846.352622

22	810.30	1846.352622
23	4264.25	2573.538140
24	511.25	2573.538140
25	1498.65	1846.352622
26	4653.25	2573.538140
27	354.05	2573.538140
28	315.30	2573.538140
29	45.75	2573.538140
30	1626.05	2573.538140
31	89.50	1846.352622
32	2034.25	1846.352622
33	2998.00	2573.538140
34	130.50	1846.352622
35	898.35	2573.538140
36	270.70	2573.538140
37	219.00	2573.538140
38	2727.80	2573.538140
39	105.50	1846.352622
40	8399.15	2573.538140
41	4543.15	1846.352622
42	3389.25	1846.352622
43	7325.10	2573.538140
44	20.25	1846.352622
45	743.05	1846.352622
46	1790.35	2573.538140
47	1441.95	1846.352622
48	490.65	2573.538140
49	2890.65	2573.538140
50	7782.85	1846.352622
51	839.65	1846.352622
52	1111.20	1846.352622
53	5043.20	1846.352622
54	20.20	2573.538140
55	1404.65	1846.352622
56	237.75	2573.538140
57	469.80	2573.538140
58	926.20	2573.538140
59	184.40	2573.538140
60	3334.95	1846.352622
61	118.50	2573.538140
62	7998.80	2573.538140
63	2499.30	1846.352622
64	219.35	2573.538140
65	2684.35	1846.352622
66	2495.20	2573.538140
67	7723.90	2573.538140
68	520.95	2573.538140
69	1916.00	2573.538140

70	20.70	1846.352622
71	723.30	1846.352622
72	1022.60	2573.538140
73	19.85	1846.352622
74	3066.45	2573.538140
75	278.85	1846.352622
76	345.90	1846.352622
77	1001.20	2573.538140
78	2341.50	2573.538140
79	5265.50	2573.538140
80	326.65	1846.352622
81	3204.40	2573.538140
82	7869.05	2573.538140
83	2669.45	1846.352622
84	2731.00	1846.352622
85	2347.90	2573.538140
86	1756.20	1846.352622
87	7279.35	1846.352622
88	4922.40	2573.538140
89	6871.90	2573.538140
90	287.85	1846.352622
91	383.65	2573.538140
92	3375.90	1846.352622
93	4307.10	2573.538140
94	2782.40	2573.538140
95	1402.25	1846.352622
96	1545.40	2573.538140
97	3418.20	1846.352622
98	125.50	1846.352622
99	2896.40	2573.538140
100	863.10	2573.538140
101	1594.75	2573.538140
102	7181.25	2573.538140
103	5607.75	2573.538140
104	6448.85	2573.538140
105	2427.35	1846.352622
106	794.25	2573.538140
107	477.05	1846.352622
108	1912.15	2573.538140
109	7556.90	2573.538140
110	1679.40	2573.538140
111	4921.20	1846.352622
112	6838.60	1846.352622
113	1652.10	2573.538140
114	1070.15	2573.538140
115	109.30	1846.352622
116	3549.25	2573.538140
117	5632.55	1846.352622

118	943.00	1846.352622
119	55.55	1846.352622
120	844.45	1846.352622
121	2948.60	2573.538140
122	1916.20	2573.538140
123	481.10	1846.352622
124	4808.70	1846.352622
125	760.05	1846.352622
126	5432.20	2573.538140
127	7661.80	2573.538140
128	3969.35	2573.538140
129	5436.45	1846.352622
130	2937.65	1846.352622
131	1161.75	1846.352622
132	1108.20	1846.352622
133	1681.60	2573.538140
134	5409.75	2573.538140
135	4684.30	2573.538140
136	3088.75	2573.538140
137	4747.85	2573.538140
138	253.00	2573.538140
139	659.35	1846.352622
140	3678.30	1846.352622
141	4312.50	2573.538140
142	179.85	1846.352622
143	5231.20	2573.538140
144	1401.40	2573.538140
145	4900.65	2573.538140
146	4539.60	1846.352622
147	115.10	1846.352622
148	6110.20	1846.352622
149	5621.85	2573.538140
150	43.80	1846.352622
151	411.25	1846.352622
152	45.55	2573.538140
153	418.25	1846.352622
154	46.30	1846.352622
155	1534.75	2573.538140
156	886.40	2573.538140
157	8404.90	2573.538140
158	1208.35	2573.538140
159	1013.60	1846.352622
160	1604.50	1846.352622
161	731.30	2573.538140
162	4959.60	2573.538140
163	3465.05	2573.538140
164	3363.80	1846.352622
165	7511.30	1846.352622

166	829.30	1846.352622
167	330.80	1846.352622
168	2220.10	2573.538140
169	251.75	2573.538140
170	1334.00	1846.352622
171	572.45	2573.538140
172	291.45	1846.352622
173	6287.30	1846.352622
174	5301.10	1846.352622
175	3425.35	1846.352622
176	520.00	1846.352622
177	797.25	1846.352622
178	4914.80	2573.538140
179	5600.15	2573.538140
180	377.55	2573.538140
181	7845.80	1846.352622
182	2265.25	2573.538140
183	5278.15	2573.538140
184	2151.60	2573.538140
185	3974.15	2573.538140
186	2236.20	2573.538140
187	35.05	1846.352622
188	1509.90	1846.352622
189	1801.90	2573.538140
190	5899.85	1846.352622
191	1301.70	2573.538140
192	198.60	2573.538140
193	454.65	1846.352622
194	424.15	2573.538140
195	3357.90	2573.538140
196	1388.00	2573.538140
197	2640.55	2573.538140
198	40.25	1846.352622
199	593.85	2573.538140
200	5956.85	1846.352622
201	2198.90	1846.352622
202	1620.20	2573.538140
203	6056.15	2573.538140
204	1859.10	1846.352622
205	981.45	2573.538140
206	7589.80	2573.538140
207	4338.60	2573.538140
208	208.00	1846.352622
209	1147.00	1846.352622
210	903.60	2573.538140
211	2696.55	1846.352622
212	0.00	1846.352622
213	4854.30	2573.538140

214	2165.05	2573.538140
215	313.00	2573.538140
216	4634.35	1846.352622
217	114.70	2573.538140
218	695.85	2573.538140
219	439.20	2573.538140
220	44.65	2573.538140
221	2719.20	1846.352622
222	3944.50	2573.538140
223	1893.50	1846.352622
224	6985.65	2573.538140
225	6444.05	2573.538140
226	70.30	2573.538140
227	5435.60	2573.538140
228	497.60	2573.538140
229	20.55	1846.352622
230	318.60	1846.352622
231	385.90	1846.352622
232	2200.25	2573.538140
233	990.30	2573.538140
234	45.65	2573.538140
235	497.55	1846.352622
236	6860.60	2573.538140
237	845.25	1846.352622
238	3019.25	2573.538140
239	1992.55	2573.538140
240	118.25	2573.538140
241	4335.20	2573.538140
242	63.60	1846.352622
243	7629.85	2573.538140
244	1461.15	2573.538140
245	2249.10	2573.538140
246	41.85	1846.352622
247	1529.20	2573.538140
248	70.80	2573.538140
249	1871.15	2573.538140
250	6145.85	2573.538140
251	1471.75	2573.538140
252	237.95	2573.538140
253	292.80	2573.538140
254	1201.15	2573.538140
255	2342.20	1846.352622
256	6953.40	2573.538140
257	6991.60	2573.538140
258	3244.40	1846.352622
259	1886.25	2573.538140
260	601.25	2573.538140
261	1474.35	2573.538140

262	2104.55	2573.538140
263	49.90	2573.538140
264	2623.65	1846.352622
265	6529.25	1846.352622
266	1759.40	2573.538140
267	5549.40	2573.538140
268	1784.50	1846.352622
269	1738.90	1846.352622
270	5000.05	2573.538140
271	74.40	2573.538140
272	4653.85	1846.352622
273	69.35	2573.538140
274	4391.45	2573.538140
275	4370.75	2573.538140
276	341.60	2573.538140
277	225.85	1846.352622
278	1745.20	2573.538140
279	5776.45	1846.352622
280	1929.00	2573.538140
281	6457.15	1846.352622
282	743.50	1846.352622
283	232.50	2573.538140
284	1750.70	1846.352622
285	1914.90	2573.538140
286	4890.50	2573.538140
287	6700.05	2573.538140
288	3496.30	1846.352622
289	220.80	1846.352622
290	8289.20	2573.538140
291	5430.35	2573.538140
292	63.15	1846.352622
293	2510.70	2573.538140
294	19.55	1846.352622
295	7920.70	2573.538140
296	45.10	1846.352622
297	49.85	2573.538140
298	697.25	1846.352622
299	370.65	2573.538140
300	174.45	2573.538140
301	350.10	1846.352622
302	235.65	2573.538140
303	2184.60	2573.538140
304	3419.30	2573.538140
305	3838.20	2573.538140
306	5731.85	1846.352622
307	5731.40	2573.538140
308	434.10	1846.352622
309	3539.25	2573.538140

310	1107.20	1846.352622
311	1929.95	1846.352622
312	4735.20	1846.352622
313	1313.25	1846.352622
314	813.30	1846.352622
315	242.40	1846.352622
316	220.65	1846.352622
317	473.90	1846.352622
318	1110.05	1846.352622
319	1230.90	2573.538140
320	92.05	2573.538140
321	196.75	2573.538140
322	336.15	2573.538140
323	413.00	2573.538140
324	454.15	2573.538140
325	2877.95	2573.538140
326	1156.55	2573.538140
327	70.70	2573.538140
328	2660.20	2573.538140
329	181.65	2573.538140
330	4116.80	2573.538140
331	330.05	1846.352622
332	8109.80	2573.538140
333	392.50	2573.538140
334	2231.05	2573.538140
335	4323.35	2573.538140
336	137.85	2573.538140
337	2877.05	2573.538140
338	768.45	2573.538140
339	3440.25	2573.538140
340	854.45	2573.538140
341	566.50	1846.352622
342	1664.30	2573.538140
343	7842.30	1846.352622
344	29.90	1846.352622
345	1061.60	1846.352622
346	246.70	2573.538140
347	270.80	2573.538140
348	7348.80	2573.538140
349	348.80	2573.538140
350	4964.70	2573.538140
351	2208.75	2573.538140
352	355.20	2573.538140
353	835.50	1846.352622
354	6844.50	2573.538140
355	122.70	1846.352622
356	80.15	1846.352622
357	1756.60	2573.538140

358	5017.90	2573.538140
359	41.20	1846.352622
360	70.00	1846.352622
361	35.10	1846.352622
362	2686.05	2573.538140
363	6141.65	2573.538140
364	49.95	1846.352622
365	113.95	2573.538140
366	465.85	1846.352622
367	452.55	1846.352622
368	1311.75	1846.352622
369	929.30	2573.538140
370	2362.10	2573.538140
371	2483.05	2573.538140
372	5611.70	2573.538140
373	408.25	1846.352622
374	3946.90	2573.538140
375	1133.65	2573.538140
376	6506.15	1846.352622
377	3744.05	2573.538140
378	1090.60	1846.352622
379	3211.20	2573.538140
380	695.05	2573.538140
381	679.80	2573.538140
382	990.85	1846.352622
383	7459.00	2573.538140
384	847.25	2573.538140
385	467.70	2573.538140
386	4473.45	2573.538140
387	3483.45	1846.352622
388	4641.10	2573.538140
389	5727.45	2573.538140
390	3442.80	1846.352622
391	4390.25	2573.538140
392	416.30	2573.538140
393	899.80	2573.538140
394	3474.45	2573.538140
395	1715.10	1846.352622
396	2896.60	1846.352622
397	1193.05	2573.538140
398	365.65	1846.352622
399	2338.35	2573.538140
400	317.25	2573.538140
401	224.50	1846.352622
402	1451.10	1846.352622
403	4822.85	2573.538140
404	0.00	2573.538140
405	5424.25	1846.352622

406	5655.45	1846.352622
407	1151.05	2573.538140
408	2655.25	1846.352622
409	5099.15	2573.538140
410	2954.50	2573.538140
411	5757.20	2573.538140
412	111.05	1846.352622
413	5746.15	1846.352622
414	20.20	1846.352622
415	2431.95	1846.352622
416	3309.25	1846.352622
417	45.00	2573.538140
418	778.10	1846.352622
419	857.80	2573.538140
420	7875.00	2573.538140
421	69.90	2573.538140
422	3366.05	2573.538140
423	2928.50	2573.538140
424	7534.65	2573.538140
425	635.60	2573.538140
426	1192.70	1846.352622
427	279.25	2573.538140
428	4254.85	1846.352622
429	8312.75	2573.538140
430	237.25	1846.352622
431	2964.80	2573.538140
432	4750.95	2573.538140
433	3509.40	1846.352622
434	4976.15	2573.538140
435	228.00	2573.538140
436	4729.75	2573.538140
437	896.90	2573.538140
438	417.75	2573.538140
439	50.70	2573.538140
440	149.05	2573.538140
441	416.45	1846.352622
442	2326.05	2573.538140
443	3626.35	2573.538140
444	436.20	2573.538140
445	188.70	1846.352622
446	317.75	1846.352622
447	686.95	1846.352622
448	2570.20	1846.352622
449	2878.75	1846.352622
450	20.05	1846.352622
451	47.95	1846.352622
452	3204.65	2573.538140
453	3141.70	2573.538140

454	1057.85	1846.352622
455	389.80	1846.352622
456	1625.00	1846.352622
457	5538.35	1846.352622
458	7344.45	2573.538140
459	1077.50	1846.352622
460	293.15	1846.352622
461	7751.70	2573.538140
462	816.80	2573.538140
463	20.30	1846.352622
464	101.65	1846.352622
465	19.50	1846.352622
466	1618.20	1846.352622
467	947.75	2573.538140
468	405.70	2573.538140
469	25.75	2573.538140
470	55.20	1846.352622
471	6382.00	2573.538140
472	554.45	2573.538140
473	3846.35	1846.352622
474	1094.50	2573.538140
475	967.85	1846.352622
476	381.30	2573.538140
477	1886.40	2573.538140
478	1336.35	1846.352622
479	3282.75	2573.538140
480	1597.40	1846.352622
481	1522.70	1846.352622
482	45.75	1846.352622
483	1332.40	2573.538140
484	592.65	1846.352622
485	79.65	2573.538140
486	893.55	2573.538140
487	646.05	2573.538140
488	6474.40	1846.352622
489	20.45	1846.352622
490	233.65	2573.538140
491	341.35	1846.352622
492	4254.10	2573.538140
493	132.25	2573.538140
494	4238.45	1846.352622
495	1393.60	1846.352622
496	1697.70	1846.352622
497	837.50	2573.538140
498	3996.80	2573.538140
499	2021.20	1846.352622
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3022	4589.85	2573.538140

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3025	6218.45	1846.352622
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3027	371.90	2573.538140
3028	2560.10	1846.352622
3029	131.05	1846.352622
3030	20.75	1846.352622
3031	617.15	2573.538140
3032	839.40	2573.538140
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3039	5869.40	2573.538140
3040	620.55	1846.352622
3041	644.50	2573.538140
3042	2263.40	2573.538140
3043	86.60	2573.538140
3044	4018.55	2573.538140
3045	6342.70	1846.352622
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3047	886.70	2573.538140
3048	2635.00	1846.352622
3049	25.00	2573.538140
3050	76.00	1846.352622
3051	676.15	1846.352622
3052	2339.30	1846.352622
3053	85.00	2573.538140
3054	1880.85	2573.538140
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3056	2535.55	2573.538140
3057	684.05	1846.352622
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3059	7758.90	2573.538140
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3061	79.55	2573.538140
3062	2813.05	2573.538140
3063	4029.95	2573.538140
3064	20.15	1846.352622
3065	140.95	2573.538140
3066	6130.95	2573.538140
3067	638.55	1846.352622
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3082	1298.70	2573.538140
3083	5542.55	1846.352622
3084	129.55	1846.352622
3085	3036.75	2573.538140
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3087	7542.25	2573.538140
3088	1570.70	1846.352622
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3092	905.55	1846.352622
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3097	2003.60	2573.538140
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3103	5794.65	2573.538140
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3105	24.80	2573.538140
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3119	2390.45	1846.352622
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3123	5398.60	1846.352622
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3130	5038.45	2573.538140
3131	6741.15	2573.538140
3132	8166.80	1846.352622
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3134	5985.75	2573.538140
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3136	50.90	1846.352622
3137	853.00	2573.538140
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3143	761.85	2573.538140
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3146	4952.95	1846.352622
3147	4615.25	1846.352622
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3149	1391.15	2573.538140
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3151	2404.10	2573.538140
3152	2931.00	2573.538140
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3155	3021.45	2573.538140
3156	378.40	1846.352622
3157	1374.20	1846.352622
3158	790.15	2573.538140
3159	4867.95	2573.538140
3160	1815.65	2573.538140
3161	3355.65	2573.538140
3162	1020.75	1846.352622
3163	720.45	1846.352622
3164	415.40	1846.352622
3165	1800.05	2573.538140
3166	0.00	1846.352622

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3168	343.45	1846.352622
3169	235.20	2573.538140
3170	6252.70	2573.538140
3171	5471.75	1846.352622
3172	6330.40	1846.352622
3173	369.15	1846.352622
3174	4228.55	1846.352622
3175	3452.55	1846.352622
3176	713.10	2573.538140
3177	2168.15	2573.538140
3178	6689.00	2573.538140
3179	19.90	2573.538140
3180	2511.95	2573.538140
3181	50.45	2573.538140
3182	1011.05	2573.538140
3183	5329.55	2573.538140
3184	4527.45	2573.538140
3185	3147.15	2573.538140
3186	2658.40	1846.352622
3187	575.45	1846.352622
3188	865.05	2573.538140
3189	19.75	1846.352622
3190	6944.50	2573.538140
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3192	244.85	2573.538140
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3194	1710.45	2573.538140
3195	4442.75	1846.352622
3196	5919.35	2573.538140
3197	227.35	1846.352622
3198	3275.15	2573.538140
3199	124.45	1846.352622
3200	1315.00	1846.352622
3201	1533.80	2573.538140
3202	1643.25	1846.352622
3203	44.90	2573.538140
3204	19.50	2573.538140
3205	873.40	1846.352622
3206	4690.65	2573.538140
3207	7238.60	1846.352622
3208	1423.15	1846.352622
3209	2614.10	1846.352622
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3211	7922.75	1846.352622
3212	669.85	2573.538140
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3214	1682.05	2573.538140

3215	813.85	2573.538140
3216	6823.40	2573.538140
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3220	1374.90	1846.352622
3221	918.75	2573.538140
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3223	48.55	2573.538140
3224	20.30	1846.352622
3225	2484.00	2573.538140
3226	1454.15	1846.352622
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3228	1537.85	1846.352622
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3231	6719.90	1846.352622
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3233	5602.25	1846.352622
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3236	69.85	2573.538140
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3245	583.45	2573.538140
3246	1387.45	2573.538140
3247	4853.75	2573.538140
3248	4140.10	2573.538140
3249	59.25	2573.538140
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3261	2198.30	2573.538140
3262	1348.95	1846.352622

3263	855.10	1846.352622
3264	24.45	2573.538140
3265	4458.15	2573.538140
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3271	1836.90	1846.352622
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3276	1308.40	2573.538140
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3278	4575.35	1846.352622
3279	3815.40	1846.352622
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3290	162.45	2573.538140
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3292	2513.50	1846.352622
3293	2564.30	1846.352622
3294	830.85	1846.352622
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3298	1077.05	2573.538140
3299	4487.30	1846.352622
3300	196.90	2573.538140
3301	4519.50	2573.538140
3302	145.15	2573.538140
3303	19.60	2573.538140
3304	249.55	2573.538140
3305	349.65	2573.538140
3306	77.50	1846.352622
3307	5168.10	2573.538140
3308	2774.55	1846.352622
3309	2263.45	2573.538140
3310	662.65	1846.352622

3311	4732.35	2573.538140
3312	347.65	2573.538140
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3314	607.70	1846.352622
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3328	906.85	2573.538140
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3333	412.60	2573.538140
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3340	134.05	1846.352622
3341	3810.55	2573.538140
3342	185.55	2573.538140
3343	779.20	1846.352622
3344	178.80	1846.352622
3345	2538.05	1846.352622
3346	3035.80	2573.538140
3347	4459.15	2573.538140
3348	2724.25	1846.352622
3349	7898.45	1846.352622
3350	1671.60	2573.538140
3351	100.35	1846.352622
3352	68.50	2573.538140
3353	70.05	2573.538140
3354	2971.70	1846.352622
3355	919.40	2573.538140
3356	8165.10	2573.538140
3357	1017.35	2573.538140
3358	4155.95	1846.352622

3359	1327.85	1846.352622
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3361	168.65	2573.538140
3362	7299.65	2573.538140
3363	1129.75	2573.538140
3364	4674.55	1846.352622
3365	505.45	1846.352622
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3367	3213.75	1846.352622
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3375	2919.85	1846.352622
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3377	44.55	1846.352622
3378	6306.50	2573.538140
3379	19.65	1846.352622
3380	2021.35	2573.538140
3381	3952.65	1846.352622
3382	4692.55	2573.538140
3383	1850.65	2573.538140
3384	797.10	1846.352622
3385	253.80	2573.538140
3386	595.05	1846.352622
3387	3263.60	2573.538140
3388	61.45	2573.538140
3389	50.80	1846.352622
3390	20.40	1846.352622
3391	1699.15	1846.352622
3392	834.15	2573.538140
3393	2404.15	1846.352622
3394	7372.65	2573.538140
3395	179.25	2573.538140
3396	1677.85	2573.538140
3397	7308.95	2573.538140
3398	6014.85	1846.352622
3399	6449.15	1846.352622
3400	1191.40	1846.352622
3401	35.90	1846.352622
3402	6733.00	1846.352622
3403	3092.65	2573.538140
3404	3959.35	2573.538140
3405	2238.50	2573.538140
3406	1563.90	2573.538140

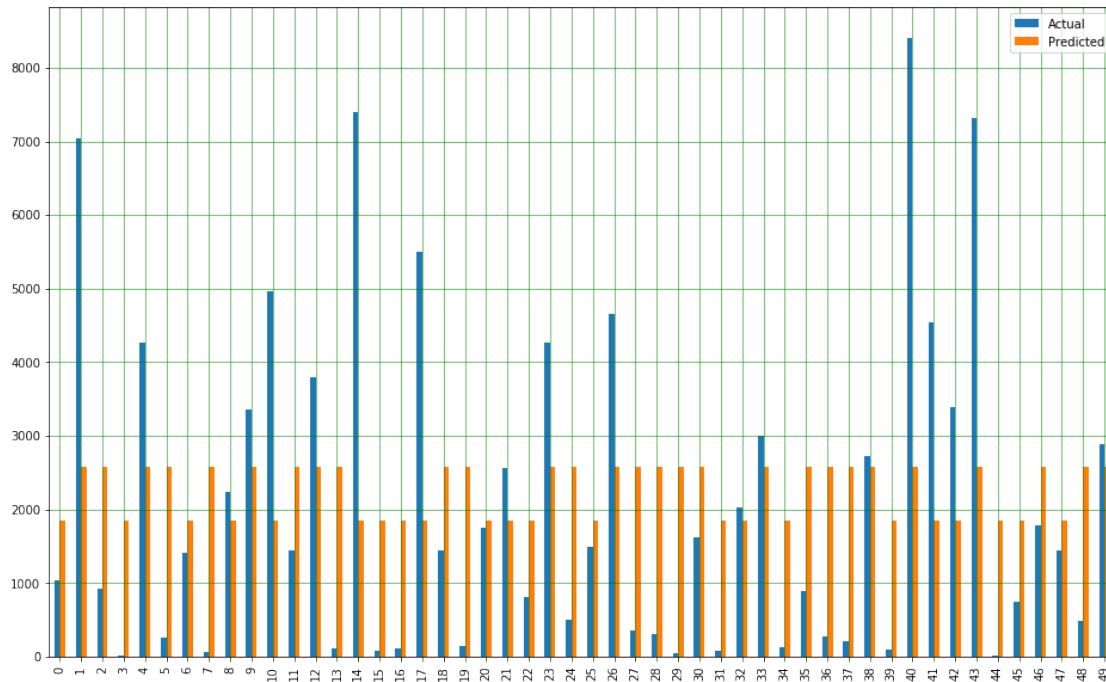
3407	69.85	2573.538140
3408	713.00	2573.538140
3409	1067.65	1846.352622
3410	1714.95	1846.352622
3411	5060.90	2573.538140
3412	853.10	1846.352622
3413	4388.40	2573.538140
3414	3110.10	2573.538140
3415	1031.40	2573.538140
3416	1782.00	1846.352622
3417	2659.40	2573.538140
3418	3756.40	2573.538140
3419	1274.45	2573.538140
3420	183.15	1846.352622
3421	1970.50	2573.538140
3422	91.10	2573.538140
3423	3527.00	1846.352622
3424	600.15	2573.538140
3425	45.30	1846.352622
3426	1510.50	1846.352622
3427	2001.50	2573.538140
3428	1087.70	2573.538140
3429	75.05	2573.538140
3430	617.65	1846.352622
3431	3902.45	1846.352622
3432	4017.45	1846.352622
3433	1046.10	2573.538140
3434	955.60	2573.538140
3435	156.35	2573.538140
3436	561.15	2573.538140
3437	202.25	1846.352622
3438	998.10	1846.352622
3439	3067.20	2573.538140
3440	1226.45	1846.352622
3441	429.55	1846.352622
3442	4433.30	1846.352622
3443	1127.20	2573.538140
3444	556.35	2573.538140
3445	1574.45	1846.352622
3446	4370.25	1846.352622
3447	190.05	1846.352622
3448	1769.60	1846.352622
3449	352.65	2573.538140
3450	708.20	2573.538140
3451	4284.65	2573.538140
3452	1212.25	1846.352622
3453	239.45	2573.538140
3454	5305.05	2573.538140

3455	8317.95	2573.538140
3456	1329.15	2573.538140
3457	50.75	1846.352622
3458	4884.85	2573.538140
3459	76.35	1846.352622
3460	5968.40	2573.538140
3461	7171.70	2573.538140
3462	7082.85	2573.538140
3463	631.40	1846.352622
3464	8126.65	2573.538140
3465	4068.00	1846.352622
3466	1522.65	1846.352622
3467	1023.90	1846.352622
3468	5794.45	2573.538140
3469	5327.25	2573.538140
3470	69.10	1846.352622
3471	211.95	1846.352622
3472	5458.80	2573.538140
3473	5637.85	2573.538140
3474	1687.95	2573.538140
3475	384.50	2573.538140
3476	296.10	2573.538140
3477	2751.00	2573.538140
3478	1258.30	2573.538140
3479	3877.65	1846.352622
3480	136.05	2573.538140
3481	563.50	1846.352622
3482	161.95	2573.538140
3483	1493.20	2573.538140
3484	469.65	2573.538140
3485	2217.15	2573.538140
3486	5953.00	2573.538140
3487	141.50	2573.538140
3488	889.90	2573.538140
3489	2221.55	2573.538140
3490	24.20	1846.352622
3491	1956.40	2573.538140
3492	865.80	1846.352622
3493	1071.40	2573.538140
3494	113.35	2573.538140
3495	7723.70	2573.538140
3496	7746.70	2573.538140
3497	368.10	2573.538140
3498	480.60	2573.538140
3499	3131.80	1846.352622
3500	1275.70	2573.538140
3501	888.75	1846.352622
3502	2018.10	1846.352622

3503	1248.90	2573.538140
3504	7690.90	2573.538140
3505	99.95	2573.538140
3506	6056.90	2573.538140
3507	49.80	2573.538140
3508	608.00	1846.352622
3509	519.15	2573.538140
3510	546.85	2573.538140
3511	367.55	1846.352622
3512	3754.60	2573.538140
3513	1546.30	1846.352622
3514	1682.40	1846.352622
3515	6328.70	1846.352622
3516	2854.55	2573.538140
3517	7553.60	2573.538140
3518	926.25	2573.538140
3519	422.70	2573.538140
3520	196.35	2573.538140
3521	19.85	2573.538140

[3522 rows x 2 columns]

```
In [36]: #To evaluate the model, I created a table with actual and predicted values, allowing
#the accuracy of the prediction on a portion of the dataset
modl1 = modl.head(50)
modl1.plot(kind='bar',figsize=(16,10))
plt.grid(which='major', linestyle='-', linewidth='0.5', color='green')
plt.grid(which='minor', linestyle=':', linewidth='0.5', color='black')
plt.show()
```



```
In [37]: #Finally to confirm the usefulness of the model, I used a couple metrics such as MAE
print('Mean Absolute Error:', metrics.mean_absolute_error(y_test, y_pred))
print('Mean Squared Error:', metrics.mean_squared_error(y_test, y_pred))
print('Root Mean Squared Error:', np.sqrt(metrics.mean_squared_error(y_test, y_pred)))
```

Mean Absolute Error: 1872.5873454428763

Mean Squared Error: 5085127.292722029

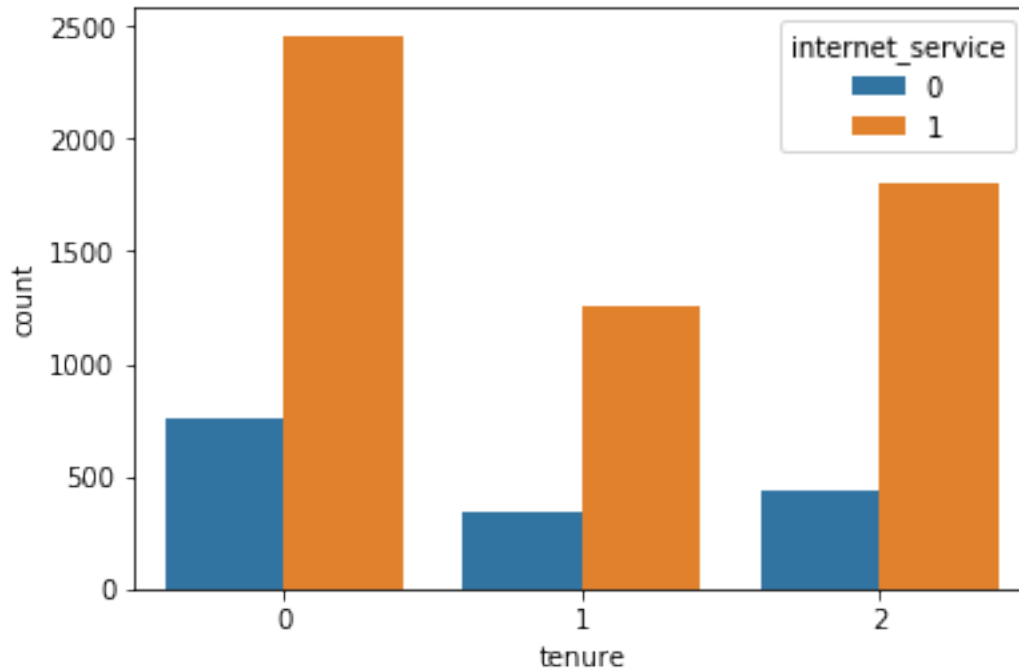
Root Mean Squared Error: 2255.0226811990224

In the end, the model has been rendered insufficient as a predictor. Moving forward, I decided to use logistic regression as a predictor, using internet service and phone service as predictors for tenure

```
In [38]: # In order to run proper analysis, I decided to bin tenure into three categories. In
# an array out of the tenure category, cut the variable into sections, and then attach
new_var = np.array(df['tenure'])
df['tenure'] = pd.cut(new_var, 3, labels=[0,1,2])
```

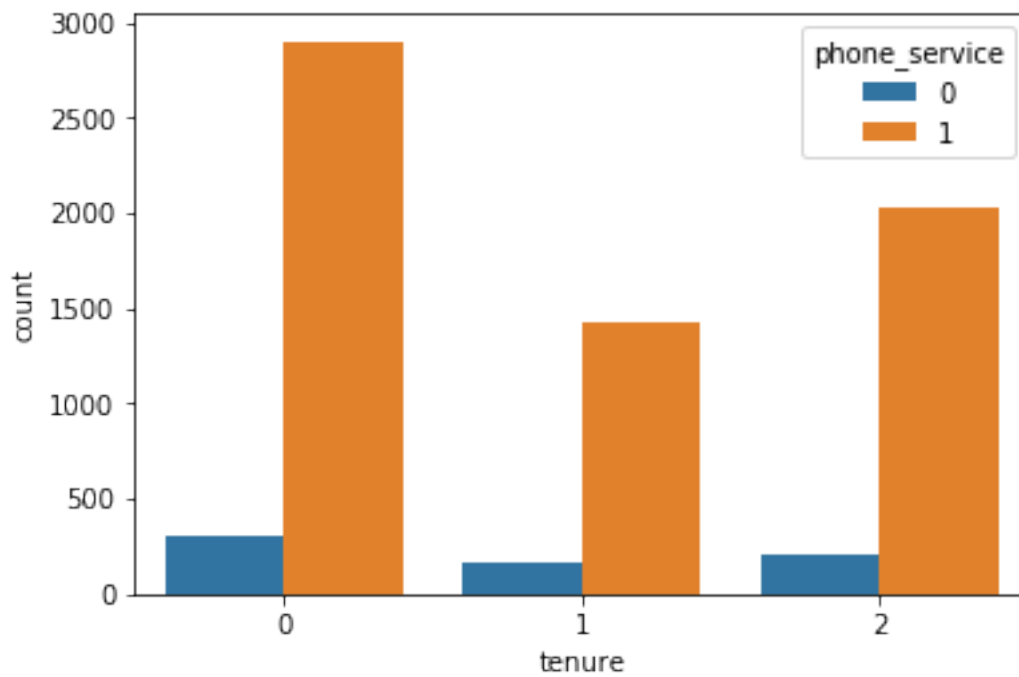
```
In [39]: #I evaluate the fluctuation in internet service based on tenure
sns.countplot(x='tenure', hue='internet_service', data=df)
```

Out[39]: <matplotlib.axes._subplots.AxesSubplot at 0x13493059828>



In [40]: *#I also evaluate the fluctuation on phone service based on tenure*
`sns.countplot(x='tenure',hue='phone_service',data=df)`

Out[40]: <matplotlib.axes._subplots.AxesSubplot at 0x13491c60320>



```

In [54]: #I create a new df with only the relevant materials
df3 = df[['phone_service', 'internet_service', 'automatic_payment', 'churn', 'partner

In [55]: #With the following code, I utilize the phone_service and internet_service variables
#of 50% of the total data set
X_train, X_test, y_train, y_test = train_test_split(df3.drop('tenure',axis=1),
                                                    df3['tenure'], test_size=0.50,
                                                    random_state=101)

In [56]: #I then develop a logistic regression from the data set and fit a model over the data
from sklearn.linear_model import LogisticRegression
logmodel = LogisticRegression()
logmodel.fit(X_train,y_train)
predictions = logmodel.predict(X_test)

C:\Users\7240\anaconda\lib\site-packages\sklearn\linear_model\logistic.py:433: FutureWarning:
Default solver will be changed to 'lbfgs' in 0.22. Specify a solver to silence this warning.

C:\Users\7240\anaconda\lib\site-packages\sklearn\linear_model\logistic.py:460: FutureWarning:
Default multi_class will be changed to 'auto' in 0.22. Specify the multi_class option to silen

In [57]: #In order to evaluate the model, I used the classification report. The f1-score is hi
#then not. The support is evenly distributed so the model distribution does not requi
print(classification_report(y_test,predictions))

```

	precision	recall	f1-score	support
0	0.64	0.79	0.71	1605
1	0.00	0.00	0.00	797
2	0.53	0.74	0.62	1120
micro avg	0.60	0.60	0.60	3522
macro avg	0.39	0.51	0.44	3522
weighted avg	0.46	0.60	0.52	3522

```

C:\Users\7240\anaconda\lib\site-packages\sklearn\metrics\classification.py:1143: UndefinedMetri

Precision and F-score are ill-defined and being set to 0.0 in labels with no predicted samples

C:\Users\7240\anaconda\lib\site-packages\sklearn\metrics\classification.py:1143: UndefinedMetri

```

Precision and F-score are ill-defined and being set to 0.0 in labels with no predicted samples

C:\Users\7240\anaconda\lib\site-packages\sklearn\metrics\classification.py:1143: UndefinedMetric

Precision and F-score are ill-defined and being set to 0.0 in labels with no predicted samples

What is evident from the model is that tenure in the beginning and end of the model can be predicted through logistic regression models of phone service and internet service